

# Electrical tools

## Cordless machines

16085001

### Drill driver 6017DWE - 10 mm

Capacity	Steel	10 mm
	Wood	15 mm
	Hi-tensile	5,1 x 35 mm
Load speed	B	0-200 t.p.m. G+D
	H	0-600 t.p.m. G+D
Torque setting		D 16 / T 10 Nm
Dimensions (L x B x H)		251 x 34 x 203 mm
Net weight		1,1 kg
Charging time		60 min.

2 battery cartridges 7000 (1,3 Ah), charger DC7100, 2 philips bits, soft case

6017DWE



16085007

### Drill driver 6019DWE - 10 mm

Capacity	Steel	10 mm
	Wood	15 mm
	Hi-tensile	5,1 x 35 mm
Load speed	B	0-200 t.p.m. G+D
	H	0-600 t.p.m. G+D
Torque setting		D 16 / T 10 Nm
Dimensions (L x B x H)		251 x 34 x 205 mm
Net weight		1,1 kg
Charging time		30 min.

2 battery cartridges 7000 (1,3 Ah), charger DC1414, 2 philips bits, soft case

6019DWE



16085268

### Impact driver TD020DSE

Voltage	7,2 V
Battery capacity	1,0 Ah
Torque setting	20 Nm
Standard bolt HR	M3-M6
Load speed	2300 t.p.m.
Net weight	0,53 kg
2 batteries	Li-ion

TD020DSE



16085034

### Angle drill driver DA301DW - 10 mm

Capacity	Steel	10 mm
	Wood	10 mm
	Hi-tensile	4,5 x 20 mm
Load speed		0-700 G+D
Dimensions (L x B x H)		259 x 59 x 94 mm
Net weight		1,2 kg
Charging time		60 min

Accu 7000 (1,3 Ah), charger DC1414, Chuck key, soft case

DA301DW



16089073

### Angle grinder 9500DW - 100 mm

Diameter disc	100 mm
Load speed	5500 t.p.m
Dimensions (L x B x H)	225 x 37 x 120 mm
Net weight	1 kg
Charging time	60 min.

Accu 7000 (1,3 Ah), charger DC9710, millstone, Allen key

9500DW



# Electrical tools

## Cordless machines

16085069

### Drill driver 6095DWE - 10 mm

Capacity	Steel	10 mm
	Wood	18 mm
	Hi-tensile	5,5 x 55 mm
Load speed	B	0-400 t.p.m. G+D
	H	0-1100 t.p.m. G+D
Torque setting		D 16 / T 10 Nm
Dimensions (L x B x H)		270 x 58 x 262 mm
Net weight		1,7 kg
Charging time		30 min.

2 battery cartridges 9000 (1,3 Ah), charger DC1414, tip PH, soft case

6095DWE



16085117

### Drill driver 6207DWDE - 10 mm

Capacity	Steel	10 mm
	Wood	25 mm
	Hi-tensile	5,5 x 55 mm
Load speed	B	0-400 t.p.m. G+D
	H	0-1300 t.p.m. G+D
Torque setting		T 20 / D 50 Nm
Dimensions (L x B x H)		233 x 77 x 243 mm
Net weight		1,7 kg
Charging time		60 min.

2 battery cartridges 9134 (2,6 Ah), charger DC1414, Ph bit, soft case

6207DWDE



16085036

### Angle drill driver DA391DW - 10 mm

Capacity	Steel	10 mm
	Wood	12 mm
	Hi-tensile	4,5 x 20 mm
Load speed		0-800 t.p.m. G+D
Torque setting		4 Nm
Dimensions (L x B x H)		335 x 50 x 115 mm
Net weight		1,3 kg
Charging time		60 min.

batteries 9000 (1,3 Ah), charger DC1414, soft case

DA391DW



16085171

### Angle drill driver DA392DWD - 10 mm

Capacity	Steel	10 mm
	Wood	12 mm
	Hi-tensile	4,5 x 20 mm
Load speed		0-800 t.p.m. G+D
Torque setting		5 Nm
Dimensions (L x B x H)		324 x 77 x 104 mm
Net weight		1,3 kg
Charging time		60 min.

Accu 9134 (2,6 Ah), charger DC9711, soft case

DA392DWD



16085075

### Angle drill driver 6704D - 8 mm

Capacity	Machine screw	4-6 mm
	Screw	M3 - M6
Square drive		3/8"
Load speed		400 t.p.m. G+D
Torque setting		8 Nm
Dimensions (L x B x H)		396 x 45 x 97 mm
Net weight		1,5 kg
Charging time		60 min.

6704D



# Electrical tools

## Cordless machine

### 16085115 Impact drill driver 6990DWDE - 90 Nm

Capacity	Standard bolt	M5-M12
	Hi-tensile	6 x 45 mm
Load speed		0-2300 t.p.m. G+D
Impacts / min		0-3000 p.m.
Square drive		1/4" hexagonal
Max. torque setting		90 Nm
Dimensions (L x B x H)		168 x 77 x 231 mm
Net weight		1,4 kg
Charging time		60 min.

2 battery cartridges 9134 (2,6 Ah), charger DC1414, Ph bit, soft case

### 16085058 Stapler T221DW - 10 mm

Staple width	10 mm
Usable staple length	10, 13, 16, 19 en 22 mm
Staple magazine capacity	100 pièces
Dimensions (L x B x H)	199 x 52 x 193 mm
Net weight	1,7 kg
Charging time	60 min.

batteries 9100 (1,3 Ah), charger DC1414, soft case

### 16085118 Drill driver 6317DWDE - 13 mm

Capacity	Steel	13 mm
	Wood	25 mm
Load speed	B	0-400 t.p.m. G+D
	H	0-1300 t.p.m. G+D
Torque setting		T 25 / D 60 Nm
Dimensions (L x B x H)		243 x 94 x 243 mm
Net weight		2,0 kg
Charging time		60 min.

2 battery cartridges 1234 (2,6 Ah), charger DC1414, Ph bit, soft case

### 16085096 Drill driver 6319DWFE - 13 mm

Capacity	Steel	13 mm
	Wood	45 mm
Load speed	3 :	0-1600 t.p.m.
	2 :	0-550 t.p.m.
	1 :	0-300 t.p.m.
Torque setting		T 31 / D 65 Nm
Dimensions (L x B x H)		246 x 94 x 243 mm
Net weight		2,2 kg
Amperage		3,0 Ah
Charging time		70 min

2 battery cartridges 1235 (3,0 Ah), charger DC1414, 2 (+)(-) tip, handle

### 16085057 Hammer drill HR160DWA - SDS+

Chuck	SDS-Plus	
Capacity	Concrete	16 mm
	Steel	13 mm
	Wood	20 mm
Load speed		0-950 t.p.m. G+D
Impacts / min		0-3600 p.m.
Force of striking		0-1,2 Joules
Dimensions (L x B x H)		296 x 70 x 232 mm
Net weight		2,5 kg
Charging time		70 min.

Accu 1202 (2,0 Ah), charger DC1201, lateral handle, stubborn of depth, soft case

6990DWDE



T221DW



6317DWDE



6319DWFE



HR160DWA



# Electrical tools

## Cordless machines

### 16085228 Combi drill 8270DWAE - 10 mm

Capacity	Steel	10 mm
	Wood	25 mm
	Stone	8 mm
Load speed	B	0-350 t.p.m. G+D
	H	0-1200 t.p.m. G+D
Impacts / min	B	0-5250 p.m.
	H	0-18000 p.m.
Torque setting		T 18 / D 30 Nm
Dimensions (L x B x H)		214 x 94 x 240 mm
Net weight		1,6 kg
Charging time		45 min.

2 battery cartridges 1222 (2,0 Ah), charger DC1414, tip PH2, soft case

8270DWAE



### 16085236 Combi drill 8414DWFE - 13 mm

Capacity	Steel/Wood/Stone	13/45/13 mm
Load speed	3 :	0-1600 t.p.m.
	2 :	0-550 t.p.m.
	1 :	0-300 t.p.m.
Impacts / min	3 :	0-24000 p.m.
	2 :	0-8250 p.m.
	1 :	0-4500 p.m.
Torque setting		T 31 / D 65 Nm
Dimensions (L x B x H)		259 x 94 x 243 mm
Net weight		2,4 kg
Amperage		3,0 Ah
Charging time		70 min.

2 battery cartridges 1235 (3,0 Ah), charger DC1414, 2 (+)(-) tip, handle, stubborn of depth

8414DWFE



### 16085172 Angle drill driver DA312DWD - 10 mm

Capacity	Steel	10 mm
	Wood	12 mm
	Hi-tensile	4,5 x 20 mm
Load speed		0-800 t.p.m. G+D
Torque setting		5 Nm
Dimensions (L x B x H)		324 x 94 x 104 mm
Net weight		1,4 kg
Charging time		60 min.

Accu 1234 (2,6 Ah), charger DC1414, soft case

DA312DWD



### 16085102 Autofeed screwdriver 6835DWDE

Dimensions		3,9 x 41 mm
Load speed		2000 t.p.m.
Dimensions (L x B x H)		364 x 95 x 177 mm
Net weight		2 kg
Charging time		60 min

2 battery cartridges 1234 (2,6 Ah), charger DC1414, Ph bit 2-127 (3), soft case

6835DWDE



### 16085224 Impact wrench 6918FDWDE - 120 Nm

Capacity	Standard bolt	M8-M14
	Standard bolt HR	M6-M12
Load speed		0-2300 t.p.m. G+D
Impacts / min		0-3000 p.m.
Torque setting		120 Nm
Square drive		carré 1/2"
Dimensions (L x B x H)		173 x 94 x 231 mm
Net weight		1,6 kg
Charging time		60 min.

2 battery cartridges 1234 (2,6 Ah), charger DC1414, soft case

6918FDWDE





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## Cordless machines

16085082

### Glass and ceramic tile cutter 4191DWA - 80 mm

Blade diameter	80 mm
Depth of cut 90°	21,5 mm
45°	16 mm
Load speed	1000 t.p.m.
Dimensions (L x B x H)	316 x 95 x 175 mm
Net weight	2,1 kg
Charging time	45 min.

Accu 1222 (2,0 Ah), charger DC1414, disque diamanté, Allen key, automatic pipette

16085141

### Hopping saw 4331DWDE

Length of stroke	26 mm
Capacity	Wood 65 mm
	Steel 10 mm
Impacts / min	500-2800 p.m.
Dimensions (L x B x H)	280 x 70 x 217 mm
Net weight	2,5 kg
Charging time	60 min.

2 battery cartridges 1234 (2,6 Ah), charger DC1411, blades (6 pcs.), anti-splinter plate, Allen key, soft case

16085267

### Vibrating poker VR250DWDE

Amplitude	1,1 m
Diameter of vibrator	25 mm
Length of flexible part	800 mm
Total length	1031 mm
Number of vibration	13000 p.m.
Net weight	2,9 kg
Charging time	45 min.

2 battery cartridges 1234 (2,6 Ah), charger DC1414, soft case

16085119

### Drill driver 6337DWDE - 13 mm

Capacity	Steel 13 mm
	Wood 32 mm
Load speed	B 0-400 t.p.m. G+D
	H 0-1300 t.p.m. G+D
Torque setting	T 30 / D 65 Nm
Dimensions (L x B x H)	243 x 94 x 247 mm
Net weight	2,1 kg
Charging time	60 min

2 battery cartridges 1434 (2,6 Ah), charger DC1414, Ph bit, soft case

16085135

### Drill driver 6339DWFE - 13 mm

Capacity	Steel 13 mm
	Wood 50 mm
Load speed	3 : 0-1700 t.p.m.
	2 : 0-600 t.p.m.
	1 : 0-300 t.p.m.
Torque setting	T 32 / D 70 Nm
Dimensions (L x B x H)	246 x 94 x 247 mm
Net weight	2,3 kg
Amperage	3,0 Ah
Charging time	70 min.

2 battery cartridges 1435 (3,0 Ah), charger DC1414, 2 (+)(-) tip, handle

### Drill driver

16085248

BDF440RFE

16085249

BDF441RFE

Voltage	14,4 V	14,4 V
Battery capacity	3,0 Ah	3,0 Ah
Load speed	2: 1400 t.p.m. 1: 400 t.p.m.	3: 0-1700 t.p.m. 2: 0-600 t.p.m. 1: 0-300 t.p.m.
Torque setting	T25 Nm/D38 Nm	T32 Nm/D70 Nm
Net weight	1,6 kg	2,0 kg
2 batteries	Li-ion	Li-ion

4191DWA



4331DWDE



VR250DWDE



6337DWDE



6339DWFE



BDF440RFE



BDF441RFE



# Electrical tools

## Cordless machines

### 16085229 Combi drill 8280DWAE - 10 mm

Capacity	Steel	10 mm
	Wood	25 mm
	Stone	10 mm
Load speed	B	0-350 t.p.m. G+D
	H	0-1200 t.p.m. G+D
Impacts / min	B	0-5250 p.m.
	H	0-18000 p.m.
Torque setting		T 20 / D 36 Nm
Dimensions (L x B x H)		214 x 94 x 245 mm
Net weight		1,7 kg
Charging time		45 min.

2 battery cartridges 1422 (2,0 Ah), charger DC1414, tip PH2, soft case

8280DWAE



### 16085233 Combi drill 8434DWFE

Capacity	Steel/wood/stone	13/50/14 mm
Load speed	3 :	0-1700 t.p.m.
	2 :	0-600 t.p.m.
	1 :	0-300 t.p.m.
Impacts / min	3 :	0-25500 p.m.
	2 :	0-9000 p.m.
	1 :	0-4500 p.m.
Torque setting		T 32 / D 70 Nm
Dimensions (L x B x H)		259 x 94 x 247 mm
Net weight		2,5 kg
Amperage		3,0 Ah
Charging time		70 min.

2 battery cartridges 1435 (3,0 Ah), charger DC1414, 2 (+)(-) tip, handle, stubborn of depth

8434DWFE



### Combi drill

	16085251	16085252
	<b>BHP440SFE</b>	<b>BHP441RFE</b>
Voltage	14,4 V	14,4 V
Battery capacity	3,0 Ah	3,0 Ah
Load speed	2: 1400 t.p.m. 1: 400 t.p.m.	3: 0-1700 t.p.m. 2: 0-600 t.p.m. 1: 0-300 t.p.m.
Impacts / min	B 0-6000 p.m. H 0-21000 p.m.	3: 0-25500 p.m. 2: 0-9000 p.m. 1: 0-4500 p.m.
Torque setting	T25 Nm/D38 Nm	T32 Nm/D70 Nm
Net weight	1,7 kg	2,1 kg
2 batteries	Li-ion	Li-ion

BHP440SFE

BHP441RFE



### 16085227 Impact wrench 6934FDWE - 140 Nm

Capacity	Standard bolt	M8-M16
	Standard bolt HR	M6-M12
Load speed		0-2300 t.p.m.
Impacts / min		0-3000 p.m.
Torque setting		140 Nm
Square drive		carré 1/2"
Dimensions (L x B x H)		173 x 94 x 238 mm
Net weight		1,7 kg
Charging time		60 min.

2 battery cartridges 1434 (2,6 Ah), charger DC1414, soft case

6934FDWE



### 16085142 Jig saw 4333DWDE

Length of stroke		26 mm
Capacity	Wood	65 mm
	Steel	10 mm
Impacts / min		500-2600 p.m.
Dimensions (L x B x H)		280 x 70 x 217 mm
Net weight		2,9 kg
Charging time		60 min

2 battery cartridges 1434 (2,6 Ah), charger DC1411, blades (6 pcs.), anti-splinter plate, Allen key, soft case

4333DWDE



# Electrical tools

## Cordless machines

16085120

### Drill driver 6347DWDE - 13 mm

Capacity	Steel	13 mm
	Wood	38 mm
Load speed	B	0-400 t.p.m. G+D
	H	0-1300 t.p.m. G+D
Torque setting		T 35 / D 80 Nm
Dimensions (L x B x H)		243 x 95 x 251 mm
Net weight		2,4 kg
Charging time		60 min.

2 battery cartridges 1834 (2,6 Ah), charger DC1804, Ph bit, soft case

16085130

### Drill driver 6349DWFE - 13 mm

Capacity	Steel	13 mm
	Wood	65 mm
Load speed	3 :	0-1700 t.p.m.
	2 :	0-600 t.p.m.
	1 :	0-300 t.p.m.
Torque setting		T 40 / D 80 Nm
Dimensions (L x B x H)		246 x 95 x 252 mm
Net weight		2,6 kg
Amperage		3,0 Ah
Charging time		70 min.

2 battery cartridges 1835 (3,0 Ah), charger DC1804, 2 (+)(-) tip, handle

### Drill driver

	16085255	16085246
	BDF450RFE	BDF451RFE
Voltage	18 V	18 V
Battery capacity	3,0 Ah	3,0 Ah
Load speed	2: 1400 t.p.m. 1: 400 t.p.m.	3: 0-1700 t.p.m. 2: 0-600 t.p.m. 1: 0-300 t.p.m.
Torque setting	T25 Nm/D41 Nm	T32 Nm/D80 Nm
Net weight	1,7 kg	2,1 kg
2 batteries	Li-ion	Li-ion

16085242

### Combi drill 8390DWAE - 10 mm

Capacity	Steel	13 mm
	Wood	32 mm
	Stone	13 mm
Load speed	B	0-350 t.p.m. G+D
	H	0-1200 t.p.m. G+D
Impacts / min	B	0-5250 p.m.
	H	0-18000 p.m.
Torque setting		T 25 / D 38 Nm
Dimensions (L x B x H)		220 x 95 x 252 mm
Net weight		2,2 kg
Charging time		45 min.

2 battery cartridges 1822 (2,0 Ah), charger DC1804, tip PH2, soft case

16085239

### Combi drill 8444DWFE - 13 mm

Capacity	Steel/Wood/Stone	13/65/16 mm
Load speed	3 :	0-1700 t.p.m.
	2 :	0-600 t.p.m.
	1 :	0-300 t.p.m.
Impacts / min	3 :	0-25500 p.m.
	2 :	0-9000 p.m.
	1 :	0-4500 p.m.
Torque setting		T40 / D 80 Nm
Dimensions (L x B x H)		259 x 95 x 252 mm
Net weight		2,7 kg
Amperage		3,0 Ah
Charging time		70 min

2 battery cartridges 1835 (3,0 Ah), charger DC1804, 2 (+)(-) tip, handle, stubborn in depth

6347DWDE



6349DWFE



BDF450RFE



BDF451RFE



8390DWAE



8444DWFE



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## Cordless machines

### 16085279 Impact wrench BTW251RFE

Voltage	18 V
Battery capacity	3,0 Ah
Capacity	bolt M10-M16 bolt HR M10-M14
Load speed	0-2100 t.p.m.
Torque setting	230 Nm
Net weight	1,7 kg
2 batteries	Li-ion

**BTW251RFE**



### 16085281 Jig saw BJV180RFE

Voltage	18 V
Battery capacity	3,0 Ah
Length of stroke	26 mm
Impacts / min	0-2600 p.m.
Net weight	2,8 kg
2 batteries	Li-ion

**BJV180RFE**



### 16085152 Recipro saw JR180DWDE

Length of stroke	23 mm
Capacity max.	Conduit 90 mm Wood 90 mm
Impacts / min	0-2700 p.m.
Dimensions (L x B x H)	447 x 95 x 206 mm
Net weight	3,5 kg
Charging time	60 min.

2 battery cartridges 1834 (2,6 Ah), charger DC1801, blades (n° 21, 22 and 23), soft case

**JR180DWDE**



### 16085161 Circular saw 5621RDWDE - 165 mm

Blade diameter	165 mm
Max cut	90° 54 mm 45° 38 mm
Load speed	2600 t.p.m.
Dimensions (L x B x H)	364 x 200 x 227 mm
Net weight	3,8 kg
Charging time	60 min

2 battery cartridges 1834 (2,6 Ah), charger DC1804, blade carburizes, parallel guide, Allen key, soft case

**5621RDWDE**



### T2036373 Angle grinder BGA452F

Blade diameter	115 mm
Load speed	10000 t.p.m.
Dimensions (L x B x H)	317 x 129 x 127 mm
Net weight	1,9 kg

**BGA452F**



# Electrical tools

## Cordless machines

16085286

### Vibrating copper BVR850SFE

- Vibrating copper sans fil permettant de compacter rapidement and facilement le béton afin de le rendre plus résistant and d'éliminer les poches d'air.

- Aiguille de 80, 120 ou 240 cm pour un compactage efficace du béton dans toutes les formes de coffrage

Voltage	18 V
Battery capacity	3,0 Ah
Diameter of vibrator	25 mm
Length of flexible part	2400 mm
Net weight	5,3 kg
2 batteries	li-ion

BVR850SFE



16085213

### Drill driver BDF460SJE - 13 mm

Capacity	Steel	13 mm
	Wood	38 mm
	Hi-tensile	10 x 90 mm
	Vis autotaraudeuses	6 mm
Load speed	B	0-460 t.p.m. G+D
	H	0-1500 t.p.m. G+D
Torque setting		70 Nm
Dimensions (L x B x H)		259 x 86 x 267 mm
Net weight		3,1 kg
Charging time		60 min.

2 battery cartridges BH2433 (3,3 Ah), charger DC24SA, lateral handle, stubborn of depth, 2 x Ph bit, soft case

BDF460SJE



16085244

### Combi drill BHP460WAE - 13 mm

Capacity	Steel	13 mm
	Concrete	16 mm
	Wood	38 mm
	Hi-tensile	10 x 90 mm
Load speed	B	0-460 t.p.m. G+D
	H	0-1500 t.p.m. G+D
Impacts / min	B	0-6900 t.p.m. G+D
	H	0-22500 t.p.m. G+D.
Torque setting		46 Nm
Dimensions (L x B x H)		267 x 86 x 267 mm
Net weight		2,7 kg
Charging time		55 min

2 battery cartridges BH2420 (2,0 Ah), charger DC24WA, lateral handle, stubborn of depth, 2 x Ph bit, soft case

BHP460WAE



16085211

### Impact wrench BTW200SJE - 200 Nm

Capacity	bolt	M10-M12
	bolt HR	M10-M12
Load speed	B	0-1600 t.p.m. G+D
	H	0-2000 t.p.m. G+D
Impacts / min	B	0-2500 p.m.
	H	0-3000 p.m.
Torque setting	B : 150 Nm - H : 200 Nm	
Dimensions (L x B x H)		267 x 86 x 277 mm
Net weight		2,7 kg
Charging time		60 min.

2 battery cartridges BH2433 (3,3 Ah), charger DC24SA, douille 19, soft case

BTW200SJE



16085241

### Circular saw BSR730SJE

Blade diameter		190 mm
Max cut max.	90°	0-66 mm
	45°	0-47 mm
	50°	0-42 mm
Load speed		2400 t.p.m.
Dimensions (L x B x H)		378 x 213 x 281 mm
Net weight		5,1 kg
Charging time		60 min

2 battery cartridges BH2433 (3,3 Ah), charger DC24SA, blade carburizes 24 teeth, parallel guide, Allen key, join for vacuum cleaner, soft case

BSR730SJE





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## Cordless machines

16085240

### Compound mitre saw BLS820SJE

Blade diameter		216 mm
Max cut max.	90°	61 x 122 mm
	45°	45 x 122 mm
Load speed		2300 t.p.m.
Dimensions (L x B x H)		528 x 430 x 486 mm
Net weight		10,5 kg
Charging time		60 min

2 battery cartridges BH2433 (3,3 Ah), charger DC24SA, blade carburizes 24 teeth, bag with dusts, douille 10, calibre of triangular regulating, vise of clamping, 2 x support of cup, clé de déverrouillage

BLS820SJE



16085209

### Rotary hammer BHR200SJE - SDS+

Capacity	Concrete	20 mm
	Steel	13 mm
	Wood	27 mm
Load speed		0-1100 t.p.m. G+D
Impacts / min		0-4700 p.m.
Force of striking		2,1 Joules
Dimensions (L x B x H)		316 x 86 x 235 mm
Net weight		4,0 kg
Charging time		60 min.

2 battery cartridges BH2433 (3,3 Ah), charger DC24SA, lateral handle, stubborn of depth, tube of grease, soft case

BHR200SJE



16085232

### Rotary hammer BHR200WAE - SDS+

Capacity	Concrete	20 mm
	Steel	13 mm
	Wood	27 mm
Load speed		0-1100 t.p.m. G+D
Impacts / min		0-4700 p.m.
Force of striking		2,1 Joules
Dimensions (L x B x H)		316 x 86 x 235 mm
Net weight		3,5 kg
Charging time		55 min

2 battery cartridges BH2420 (2,0 Ah), charger DC24WA, lateral handle, stubborn of depth, tube of grease, soft case

BHR200WAE



16085208

### Saw tiger BJR240SJE

Capacity max.	Conduit	90 mm
	Wood	90 mm
Impacts / min	B	0-2300 t.p.m.
	H	0-2700 t.p.m.
Length of stroke		32 mm
Dimensions (L x B x H)		469 x 88 x 230 mm
Net weight		4,9 kg
Charging time		60 min.

2 battery cartridges BH2433 (3,3 Ah), charger DC24SA, blades (n° 21-22-23), soft case

BHR240SJE



16085245

### Radio of construction site BMR100

Adapter on area	DC12V 700mA
Blocs «clic	9,6 - 18 V
Sliding blocks	9,6 - 24 V
Beach of frequency	FM : 87.50 - 108 MHz
	AM : 520 - 1710 kHz
Amplification	2x0,8W (9,6V)- until 2x5W (24V)
Dimensions (L x B x H)	261 x 167 x 433 mm
Net weight (without battery)	4,2 kg

#### Standard accessories:

- Adapter on area DC12V 700mA, 2 battery cartridges type AA

#### Main advantages

- Construction solide avec amortisseurs sur les coins and tubes métalliques protégeant le tableau de commande
- Construction étanche aux projections d'eau résistant à une averse durant cinq minutes.
- Double alimentation : fonctionne sur secteur (à l'aide de l'adaptateur inclus) ou sur toutes les battery cartridges Makita, quelle qu'en soit la composition (Ni-Cad, Ni-MH ou Li-ion) ou le voltage (9.6, 12, 14.4, 18 and 24V)

#### Additional advantages

- Ecran LCD éclairé reste allumé pendant 15 secondes après que l'on touche n'importe quel bouton
- Eteignage différé
- 5 boutons de préselection and recherche automatique de stations
- Prise pour écouteurs
- Poignée escamotable revêtue de caoutchouc.

BMR100





# Electrical tools

## Electrical tools

**16086053**
**Percussion drill HP1620 - 13 mm**

Input wattage	650 Watt
Max in masonry	16 mm
Max in steel	13 mm
Max in wood	30 mm
No load speed	0-2800 t.p.m.
Blows per minute	0-44800 p.m.
Dimensions (L x B x H)	303 x 68 x 222 mm
Net weight	1,7 kg

Depth gauge and side handle.

**HP1620**

**16087024**
**Percussion drill with job light HP1621FK-13 mm**

Input wattage	650 Watt
Max in masonry	16 mm
Max in steel	13 mm
Max in wood	30 mm
No load speed	0-2800 t.p.m.
Blows per minute	0-44800 p.m.
Dimensions (L x B x H)	303 x 68 x 222 mm
Net weight	1,7 kg

Depth gauge, side handle and carry case.

**HP1621FK**

**16086032**
**Percussion drill HP2033 - 13 mm**

Input wattage	720 Watt
Max in masonry	20 mm
Max in steel	13 mm
Max in wood	40 mm
No load speed	L 0-850 t.p.m. G+D H 0-2900 t.p.m. G+D
Blows per minute	L 0-9400 p.m. H 0-32000 p.m.
Dimensions (L x B x H)	368 x 75 x 195 mm
Net weight	2,5 kg

Depth gauge, side handle and carry case

**HP2033**

**16086035**
**Percussion drill with job light HP2051F-13 mm**

Input wattage	720 Watt
Max in masonry	20 mm
Max in steel	13 mm
Max in wood	40 mm
No load speed	L 0-1200 t.p.m. G+D H 0-2900 t.p.m. G+D
Blows per minute	L 0-24000 p.m. H 0-58000 p.m.
Dimensions (L x B x H)	360 x 70 x 220 mm
Net weight	2,3 kg

Side handle, depth gauge and job light

**HP2051F**

**16086036**
**Percussion drill with job light HP2071F-20 mm**

Input wattage	1010 Watt
Max in masonry	20 mm
Max in steel	18 mm
Max in wood	40 mm
No load speed	L 0-1200 t.p.m. G+D H 0-2900 t.p.m. G+D
Blows per minute	L 0-24000 p.m. H 0-58000 p.m.
Dimensions (L x B x H)	362 x 70 x 220 mm
Net weight	2,4 kg

Side handle and depth gauge

**HP2071F**


# Electrical tools

## Electrical tools

### 16086051 Angle drill DA3010F - 10 mm

Input wattage	450 Watt
Max in steel	10 mm
Max in wood	21 mm
No load speed	0-2400 t.p.m. G+D
Dimensions (L x B x H)	270 x 61 x 79 mm
Net weight	1,4 kg

Chuck key, side handle ad job light

DA3010F



### 16087029 Angle drill DA4000LR - 13 mm

Input wattage	710 Watt
Max in steel	13 mm
Max in wood	H:65 mm/L:118 mm
Scie-trépan	B:114 mm/H:152 mm
No load speed	L 0-400 t.p.m.
with attachment :	H 0-900 t.p.m.
Total length	413 mm
Net weight	3,7 kg

Chuck key, 2x side handle, and hex wrench

DA4000LR



### 16086027 Rotary drill 6410 - 10 mm

Input wattage	350 Watt
Max in steel	10 mm
Max in wood	25 mm
No load speed	0-2200 t.p.m. G+D
Dimensions (L x B x H)	248 x 63 x 183 mm
Net weight	1,2 kg

6410



### 16086010 Rotary drill 6408 - 10 mm

Input wattage	530 Watt
Max in steel	10 mm
Max in wood	25 mm
No load speed	0-2500 t.p.m. G+D
Dimensions (L x B x H)	261 x 68 x 199 mm
Net weight	1,4 kg

6408



### 16086013 Rotary drill DP4700 - 13 mm

Input wattage	510 Watt
Max in steel	13 mm
Max in wood	36 mm
No load speed	0-550 t.p.m. G+D
Dimensions (L x B x H)	275 x 75 x 188 mm
Net weight	2 kg

Side handle

DP4700



# Electrical tools

## Electrical tools

### 16086042 Rotary drill DP4001 - 13 mm

Input wattage	750 Watt
Max in steel	13 mm
Max in wood	38 mm
No load speed	0-900 t.p.m. G+D
Max. torque	52 Nm
Dimensions (L x B x H)	308 x 72 x 196 mm
Net weight	2,0 kg

Side handle

DP4001



### 16086043 Rotary drill DP4003 - 13 mm

Input wattage	750 Watt
Max in steel	13 mm
Max in wood	38 mm
No load speed	0-600 t.p.m. G+D
Max. torque	73 Nm
Dimensions (L x B x H)	308 x 72 x 196 mm
Net weight	2,0 kg

Side handle

DP4003



### 16086005 Mixer UT120X

Input wattage	1150 Watt
Max. Ø mixer	140 mm
No load speed	250-580 t.p.m.
Axe	M 14
Class protection	II
Protection	IP20
Net weight	4,3 kg

Mixer 140 x 600 mm

UT120X



### 16089123 Diamant core drill (wet and dry applications) DBM131

Input wattage	1700 Watt
Max diamond core capacity	
1 <sup>st</sup> speed	132 mm
2 <sup>nd</sup> speed	70 mm
No load speed	
1 <sup>st</sup> speed	0-800 t.p.m.
2 <sup>nd</sup> speed	0-1570 t.p.m.
Class protection	II
Axe	M18
Net weight	6,1 kg
Collar clamping diameter	53 mm

Side handle, carrying case, double threaded adaptor, in-line RCD, tap, water supply pipe, and water injector

DBM131



### 16089124 Diamant core drill (wet and dry applications) DBM131W

Input wattage	1700 Watt
Max diamond core capacity	
1 <sup>st</sup> speed	132 mm
2 <sup>nd</sup> speed	70 mm
No load speed	
1 <sup>st</sup> speed	0-800 t.p.m.
2 <sup>nd</sup> speed	0-1570 t.p.m.
Class protection	II
Axe	M18
Net weight	6,1 kg
Collar clamping diameter	53 mm

Side handle, carrying case, double threaded adaptor, in-line RCD, tap, water supply pipe, and water injector

DBM131W



# Electrical tools

## Electrical tools

### 16084034 Rotary hammer HR2020 - SDS+

Input wattage	710 Watt
Max in masonry	20 mm
Max in steel	13 mm
Max in wood	32 mm
No load speed	0-1050 t.p.m. G+D
Blows per minute	0-4050 p.m.
Joules	2,2 Js
Dimensions (L x B x H)	352 x 72 x 204 mm
Net weight	2,3 kg

Depth gauge and grip assembly

HR2020



### 16084033 Rotary hammer HR2440 - SDS+

Input wattage	780 Watt
Max in masonry	24 mm
Max in steel	13 mm
Max in wood	32 mm
No load speed	0-1100 t.p.m. G+D
Blows per minute	0-4500 p.m.
Joules	2,7 Js
Dimensions (L x B x H)	352 x 72 x 204 mm
Net weight	2,3 kg

Depth gauge and grip assembly

HR2440



### 16084039 Rotary hammer HR2440X - SDS+

Input wattage	780 Watt
Max in masonry	24 mm
Max in steel	13 mm
Max in wood	32 mm
No load speed	0-1100 t.p.m. G+D
Blows per minute	0-4500 p.m.
Joules	2,7 Js
Dimensions (L x B x H)	352 x 72 x 204 mm
Net weight	2,3 kg

Depth gauge and grip assembly

HR2440X



### 16084035 Rotary hammer HR2450 - SDS+

Input wattage	780 Watt
Max in masonry	24 mm
Max in steel	13 mm
Max in wood	32 mm
No load speed	0-1100 t.p.m. G+D
Blows per minute	0-4050 p.m.
Joules	2,7 Js
Dimensions (L x B x H)	360 x 72 x 204 mm
Net weight	2,4 kg

Depth gauge and grip assembly

HR2450



### 16084036 Keyless chuck + Job light HR2450FT - SDS+

Input wattage	780 Watt
Max in masonry	24 mm
Max in steel	13 mm
Max in wood	32 mm
No load speed	0-1100 t.p.m. G+D
Blows per minute	0-4050 p.m.
Joules	2,7 Js
Dimensions (L x B x H)	360 x 72 x 204 mm
Net weight	2,4 kg

Depth gauge and grip assembly

HR2450FT



# Electrical tools

## Electrical tools

### 16084001 Rotary hammer HR3000C - SDS+

Input wattage	850 Watt
Max bit diameter	30 mm
Max core diameter	90 mm
No load speed	360-720 t.p.m.
Blows per minute	1650-3300 p.m.
Joules	2,7-5,3 Js
Dimensions (L x B x H)	391 x 96 x 234 mm
Net weight	4,8 kg

Side handle, bit grease and depth gauge

HR3000C



### 16084044 Rotary hammer HR4011C - SDS-Max

Input wattage	1100 Watt
Max bit diameter	40 mm
Max core diameter	105 mm
No load speed	235-480 t.p.m.
Blows per minute	1350-2750 p.m.
Joules	9,75 Js
Dimensions (L x B x H)	468 x 116 x 261 mm
Net weight	5,9 kg

Bit grease, depth rod and side handle

HR4011C



### 16084032 Rotary hammer HR4500C - SDS-Max

Input wattage	1300 Watt
Max bit diameter	45 mm
Max core diameter	125 mm
No load speed	120-240 t.p.m.
Blows per minute	1250-2550 p.m.
Joules	4,2-8,3 Js
Dimensions (L x B x H)	488 x 118 x 278 mm
Net weight	7,8 kg

Bit grease, depth rod and 2 side handles

HR4500C



### 16084010 Rotary hammer HR5001C - SDS-Max

Input wattage	1500 Watt
Max bit diameter	50 mm
Max core diameter	160 mm
No load speed	120-240 t.p.m.
Blows per minute	1100-2150 p.m.
Joules	9-17,5 Js
Dimensions (L x B x H)	610 x 118 x 280 mm
Net weight	10 kg

2 side handles and depth rod

HR5001C



### 16084007 Rotary hammer HR3850B

Input wattage	940 Watt
Max bit diameter	38 mm
Max core diameter	118 mm
No load speed	240 t.p.m.
Blows per minute	2900 p.m.
Joules	7,7 Js
Dimensions (L x B x H)	442 x 104 x 270 mm
Net weight	7,5 kg

Adjustable depth rod, 2 hex wrenches (4 & 5 mm), and side handle

HR3850B



# Electrical tools

## Electrical tools

### 16084013 Power scraper HK0500 - SDS+

Input wattage	550 Watt
Blows per minute	2000 - 3500 p.m.
Joules	1,6 - 2,8 Js
Dimensions (L x B x H)	468 x 83 x 174 mm
Net weight	3,1 kg

Scaling chisel

HK0500



### 16084029 Power scraper HM0860C - SDS-Max

Input wattage	1100 Watt
Blows per minute	1100 - 2650 p.m.
Joules	1,8 - 12 Js
Dimensions (L x B x H)	454 x 99 x 223 mm
Net weight	4,7 kg

Grease and side handle

HM0860C



### 16084026 Power scraper HM1202C - SDS-Max

Input wattage	1450 Watt
Blows per minute	950 - 1900 p.m.
Joules	5,6 - 21,9 Js
Dimensions (L x B x H)	578 x 112 x 258 mm
Net weight	9,3 kg

Bull point, bit grease and side handle

HM1202C



### 16084015 Power scraper HM1400 - Hexagonal 30 mm

Input wattage	1240 Watt
Blows per minute	1200 p.m.
Joules	33,7 Js
Dimensions (L x B x H)	613 x 213 x 510 mm
Net weight	17 kg

Chisel

HM1400



### 16084045 Power scraper HM1810 - Hexagonal 28,6 mm

Input wattage	1900 Watt
Blows per minute	1050 p.m.
Joules	56 Js
Driving shank	hex 28,6 mm
Vibration	9 m/s <sup>2</sup>
Dimensions (L x B x H)	824 x 146 x 624 mm
Net weight	30 kg

HM1810





# Electrical tools

## Electrical tools

### 16087003 Drywall screwdriver 6821

Driving shank	1/4" hex
Input wattage	570 Watt
Max self drilling screw	6 mm
Max drywall screw	5 mm
No load speed	0-4000 t.p.m. G+D
Dimensions (L x B x H)	273 x 68 x 197 mm
Net weight	1,3 kg

Phillips No. 2 (25 mm) insert bit, magnetic screwdriver bit holder, locator with removable stopper.

6821



### 16085221 Drywall screwdriver 6825R

Driving shank	1/4" hex
Input wattage	570 Watt
Max drywall screw	4 mm
No load speed	0-6000 t.p.m. G+D
Dimensions (L x B x H)	290 x 70 x 218 mm
Net weight	1,4 kg

Phillips No. 2 (25 mm) insert bit, magnetic screwdriver bit holder, locator with removable stopper.

6825R



### 16087021 Drywall screwdriver 6826N

Driving shank	1/4" hex
Input wattage	570 Watt
Max self drilling screw	6 mm
No load speed	0-2500 t.p.m. G+D
Dimensions (L x B x H)	280 x 70 x 203 mm
Net weight	1,5 kg

Magnetic socket bit 10-65, locator complete 3/8"

6826N



### 16087023 Drywall screwdriver 6827

Driving shank	1/4" hex
Input wattage	570 Watt
Capacity Max self drilling screw	6 mm
No load speed	0-2500 G+D
Max. torque	26 Nm
Dimensions (L x B x H)	293 x 70 x 204 mm
Net weight	1,8 kg

Adjust sleeve case.

6827



### 16087022 Drywall screwdriver 6952

Driving shank	1/4" hex
Input wattage	270 Watt
Max standard bolt	M6-M14
Max wood screw	30 x 125 mm
Torque	120 Nm
No load speed	0-3200 t.p.m.
Blows per minute	0-3100 p.m.
Dimensions (L x B x H)	229 x 67 x 180 mm
Net weight	1,3 kg

soft case

6952



# Electrical tools

## Electrical tools

### 16087016 Screwdriver auto feed 6834

Driving shank	1/4" hex
Input wattage	470 Watt
Max drywall screw	4mm x 25 x 28 x 32 x 40mm
No load speed	2800 t.p.m. G+D
Dimensions (L x B x H)	396 x 76 x 190 mm
Net weight	1,9 kg

Phillips bits

6834



### 16087030 Screwdriver auto feed 6836

Driving shank	1/4" hex
Input wattage	470 Watt
Max drywall screw	4mm x 25 x 28 x 32 x 40mm
No load speed	6000 t.p.m.
Dimensions (L x B x H)	364 x 76 x 190 mm
Net weight	1,9 kg

Phillips bits

6836



### 16087017 Impact wrench TW0200

Driving shank	square 1/2"
Input wattage	380 Watt
Capacity Bolt range	M10-M16
Nut	M10-M12
No load speed	0-2200 t.p.m. G+D
Blows per minute	0-2200 p.m.
Max. torque	200 Nm
Dimensions (L x B x H)	251 x 72 x 220 mm
Net weight	2,1 kg

24 mm socket

TW0200



### 16087018 Impact wrench TW0350

Driving shank	square 1/2"
Input wattage	400 Watt
Capacity Bolt range	M12-M22
Nut	M12-M16
No load speed	2200 t.p.m. G+D
Blows per minute	2200 p.m.
Max. torque	350 Nm
Dimensions (L x B x H)	282 x 87 x 234 mm
Net weight	2,9 kg

24 mm socket

TW0350



### 16087006 Impact wrench 6906

Driving shank	square 3/4"
Input wattage	850 Watt
Capacity Bolt range	M16-M22
Nut	M16-M20
No load speed	0-1700 t.p.m. G+D
Max. torque	580 Nm
Dimensions (L x B x H)	327 x 95 x 237 mm
Net weight	5 kg

Inc socket (32 x 56), hex wrench (4 mm), grip assembly

6906



### 16087028 Impact wrench TW1000

Driving shank	square 25,4 mm
Input wattage	1200 Watt
Capacity Bolt range	M24-M30
Nut	M22-M24
No load speed	0-1400 t.p.m. G+D
Max. torque	1000 Nm
Total length	382 mm
Net weight	8,4 kg

41 mm socket

TW1000



# Electrical tools

## Electrical tools

16089031

### Angle grinder 9555NBK - 125 mm

Input wattage	710 Watt
Wheel size	125 mm
No load speed	1000 t.p.m.
Driving shank axle	M14
Dimensions (L x B x H)	258 x 139 x 106 mm
Net weight	1,4 kg

Lock nut, wrench, flange, side handle and wheel guard

9555NBK



16089059

### Angle grinder 9557NBK - 115 mm

Input wattage	840 Watt
Wheel size	115 mm
No load speed	1000 t.p.m.
Driving shank axle	M14
Dimensions (L x B x H)	271 x 129 x 106 mm
Net weight	1,6 kg

Lock nut, lock nut wrench, inner flange, side handle and wheel guard

9557NBK



16089050

### Angle grinder 9558NBKD2 - 125 mm

Input wattage	840 Watt
Wheel size	125 mm
No load speed	1000 t.p.m.
Driving shank axle	M14
Dimensions (L x B x H)	271 x 139 x 106 mm
Net weight	1,6 kg

Lock nut, lock nut wrench, inner flange, side handle and wheel guard

9558NBKD2



16089055

### Angle grinder 9565Z - 125 mm

Input wattage	900 Watt
Wheel size	125 mm
No load speed	1000 t.p.m.
Driving shank axle	M14
Dimensions (L x B x H)	299 x 139 x 103 mm
Net weight	1,8 kg

Lock nut, lock nut wrench, inner flange, side-handle and wheel guard.

9565Z



16089047

### Angle grinder 9015B / 9015BY - 125 mm

Input wattage	1050 Watt
Wheel size	125 mm
No load speed	1000 t.p.m.
Driving shank axle	M14
Dimensions (L x B x H)	381 x 139 x 118 mm
Net weight	2,4 kg

Grip, lock nut wrench, wheel guard

9015B



# Electrical tools

## Electrical tools

### 16089127 Angle grinder 9562C - 125 mm

Input wattage	1100 Watt
Wheel size	125 mm
No load speed	1000 t.p.m.
Driving shank axe	M14
Dimensions (L x B x H)	289 x 139 x 103 mm
Net weight	1,7 kg

Wrench, side handle, wheel guard

9562C



### 16089052 Angle grinder 9565CV - 125 mm

Input wattage	1400 Watt
Wheel size	125 mm
No load speed	2800-11000 t.p.m.
Driving shank axe	M14
Dimensions (L x B x H)	299 x 139 x 103 mm
Net weight	1,8 kg

Wrench, side handle, wheel guard

9565CV



### 16089076 Angle grinder GA9010CFY - 230 mm

Input wattage	2000 Watt
Wheel size	230 mm
No load speed	6000 t.p.m.
Driving shank axe	M14
Dimensions (L x B x H)	453 x 250 x 137 mm
Net weight	3,4 kg

Side grip, guard wrench

GA9010CFY



### 16089126 Angle grinder GA9020

Input wattage	2200 Watt
Wheel size	230 mm
No load speed	6600 t.p.m.
Driving shank axe	M14
Dimensions (L x B x H)	473 x 249 x 140 mm
Net weight	4,3 kg

GA9020



### 16089128 Angle grinder GA9020S

Input wattage	2200 Watt
Wheel size	230 mm
No load speed	6600 t.p.m.
Driving shank axe	M14
Dimensions (L x B x H)	473 x 249 x 140 mm
Net weight	4,3 kg

GA9020S



# Electrical tools

## Grinder

### 16089134 Angle grinder GA9020SFK1

Input wattage	2200 Watt
Wheel size	230 mm
No load speed	6600 t.p.m.
Spindle size	M14
Dimensions (L x B x H)	473 x 249 x 140 mm
Net weight	4,7 kg

GA9020SFK1



### 16089129 Angle grinder GA9030SF01

Input wattage	2400 Watt
Wheel size	230 mm
No load speed	6500 t.p.m.
Spindle size	M14
Dimensions (L x B x H)	511 x 249 x 140 mm
Net weight	5,4 kg

GA9030SF01



### 16089130 Angle grinder GA9040SF01

Input wattage	2600 Watt
Wheel size	230 mm
No load speed	6500 t.p.m.
Spindle size	M14
Dimensions (L x B x H)	511 x 249 x 140 mm
Net weight	5,6 kg

GA9040SF01



### 16089091 Right grinder GD0800C - 6 mm

Input wattage	750 Watt
Collet capacity	6 mm
No load speed	7000-28000 t.p.m.
Dimensions (L x B x H)	371 x 75 x 75 mm
Net weight	1,6 kg

6 mm collet cone, 2 x wrench

GD0800C



### 16089092 Right grinder GD0810C - 6 mm

Input wattage	750 Watt
Collet capacity	6 mm
No load speed	1800-7000 t.p.m.
Dimensions (L x B x H)	371 x 75 x 75 mm
Net weight	1,7 kg

6 mm collet cone, 2 x wrench

GD0810C



# Electrical tools

## Nibbler and shear

### 16088007 Nibbler JN1601 - 1,6 mm

Input wattage		550 Watt
Max. cut in mild steel	400N/mm <sup>2</sup>	1,6 mm
Max. cut in stainless steel	600N/mm <sup>2</sup>	1,2 mm
Max. cut in stainless steel	800N/mm <sup>2</sup>	0,8 mm
Max. cut in aluminium	200N/mm <sup>2</sup>	2,5 mm
Radius inside edge		45 mm
Min. cutting outside edge		50 mm
Strokes per minute		2200 p.m.
Dimensions (L x B x H)		261 x 75 x 177,5 mm
Net weight		1,6 kg

3 mm hex wrench, punch & die set, and wrench holder.

JN1601



### 16088002 Nibbler JN3200 - 3,2 mm

Input wattage		660 Watt
Max. cut in mild steel	400N/mm <sup>2</sup>	3,2 mm
Max. cut in stainless steel	600N/mm <sup>2</sup>	2,5 mm
Max. cut in stainless steel	800N/mm <sup>2</sup>	1,5 mm
Max. cut in aluminium	200N/mm <sup>2</sup>	3,5 mm
Radius inside edge		120 mm
Min. cutting outside edge		128 mm
Strokes per minute		1300 p.m.
Dimensions (L x B x H)		215 x 84 x 255 mm
Net weight		3,4 kg

3 mm hex wrench, punch & die set, spacers x 2

JN3200



### 16088004 Shear JS1660 - 1,6 mm

Input wattage		260 Watt
Max. cut in mild steel	400N/mm <sup>2</sup>	1,6 mm
Max. cut in stainless steel	600N/mm <sup>2</sup>	1,2 mm
Max. cut in stainless steel	800N/mm <sup>2</sup>	0,8 mm
Max. cut in aluminium	200N/mm <sup>2</sup>	2,5 mm
Strokes per minute		4500 p.m.
Dimensions (L x B x H)		304 x 70 x 80 mm
Net weight		1,4 kg

3 mm hex wrench, thickness gauge set, and wrench holder.

JS1660



### 16088005 Shear JS1670 - 1,0 mm

Input wattage		260 Watt
Max. cut in mild steel	400N/mm <sup>2</sup>	1,0 mm
Max. cut in stainless steel	600N/mm <sup>2</sup>	0,7 mm
Max. cut in stainless steel	800N/mm <sup>2</sup>	0,5 mm
Max. cut in aluminium	200N/mm <sup>2</sup>	1,6 mm
Strokes per minute		4500 p.m.
Dimensions (L x B x H)		306 x 70 x 80 mm
Net weight		1,4 kg

4 mm hex wrench

JS1670



### 16088006 Shear JS3200 - 3,2 mm

Input wattage		660 Watt
Max. cut in mild steel	400N/mm <sup>2</sup>	3,2 mm
Max. cut in stainless steel	600N/mm <sup>2</sup>	2,5 mm
Max. cut in stainless steel	800N/mm <sup>2</sup>	1,5 mm
Max. cut in aluminium	200N/mm <sup>2</sup>	4,0 mm
Strokes per minute		1600 p.m.
Dimensions (L x B x H)		204 x 85 x 240 mm
Net weight		3,5 kg

2 shear blades, 4 mm hex wrench, and thickness gauge.

JS3200





# Electrical tools

## Circular saw and cut off saw

### 16091041 Circular saw 5603RK - 165 mm

Input wattage	1100 Watt
Blade diameter	165 mm
Bore diameter	20 mm
Max cut at	90° 54 mm
	45° 38 mm
No load speed	5000 t.p.m.
Dimensions (L x B x H)	331 x 243 x 237 mm
Net weight	4,7 kg

Carbide-tipped saw blade, rip fence (guide rule), hex wrench and dust nozzle, carrying case

5603RK



### 16091047 Circular saw 5705RK - 190 mm

Input wattage	1400 Watt
Blade diameter	190 mm
Bore diameter	30 mm
Max cut at	90° 66 mm
	45° 46 mm
No load speed	4800 t.p.m.
Dimensions (L x B x H)	356 x 353 x 250 mm
Net weight	5,2 kg

Carbide-tipped saw blade, rip fence (guide rule), hex wrench and dust nozzle, carrying case

5705RK



### 16091024 Circular saw 5903R - 235 mm

Input wattage	2000 Watt
Blade diameter	235 mm
Bore diameter	30 mm
Max cut at	90° 85 mm
	45° 64 mm
No load speed	4500 t.p.m.
Dimensions (L x B x H)	400 x 185 x 286 mm
Net weight	6,7 kg

Carbide-tipped saw blade, rip fence (guide rule) and hex wrench.

5903R



### 16091064 Cut off saw LH1040F - 260 mm

Input wattage	1650 Watt
Blade diameter	260 mm
Bore diameter	30 mm
Max cut at	90° 40 mm
	45° 69 x 85 mm
Max. bevel range	0-45° left and right
Max. table cut 90°	40 mm
No load speed	4800 t.p.m.
Dimensions (L x B x H)	530 x 476 x 535 mm
Net weight	13,7 kg

TCT blade, rip fence, bevel guide blade guard, dust cover dust bag wrench

LH1040F



### 16091067 Cut off saw LF1000 - 260 mm

Input wattage	1650 Watt
Blade diameter	260 mm
Bore size	30 mm
No load speed	2700 t.p.m.
Dimensions (L x B x H)	630 x 630 x 890 mm
Max cut at	90° 68 x 95 mm
	45° 68 x 155 mm
Max. table cut	90° 70 mm
	45° 32 mm

TCT blade, rip fence, bevel guide, push stick, blade guard, dust cover dust bag, and wrench

LF1000



# Electrical tools

## Saws

### 16091066 Cut off saw LS1214F - 305 mm

Input wattage	1650 Watt
Blade diameter	305 mm
Bore size	30 mm
Max cut at	90° 115 x 308 mm
	45° 115 x 218 mm
Max. bevel range	0-45° left and right
Coupe biaise	0-45° left and right
No load speed	3200 t.p.m.
Dimensions (L x B x H)	520 x 723 x 696 mm
Net weight	23,8 kg

TCT blade, dust bag, bevel guide blade guard

LS1214F



### 16089117 Band saw (portable) 2107FK - 120 mm

Input wattage	710 Watt
Cutting capacity	120 x 120 mm
No load speed	60 m/min. - 105 m/min.
Dimensions (L x B x H)	508 x 188 x 256 mm
Net weight	5,7 kg

18 tpi blade, job light, and wrench.

2107FK



### 16091021 Jigsaw 4322 - 65 mm

Input wattage	400 Watt
Length of stroke	18 mm
Max. cut in wood	90° 65 mm
Max. cut in steel	90° 6 mm
Strokes per minute	3100 p.m.
Dimensions (L x B x H)	207 x 74 x 199 mm
Net weight	1,8 kg

Jigsaw blade and wrench.

4322



### 16091033 Jigsaw 4323 - 65 mm

Input wattage	400 Watt
Length of stroke	18 mm
Max. cut in wood	90° 65 mm
Max. cut in steel	90° 6 mm
Strokes per minute	500-3100 p.m.
Dimensions (L x B x H)	207 x 74 x 199 mm
Net weight	1,8 kg

Jigsaw blade and wrench.

4323



### 16091053 Jigsaw 4324 - 65 mm

Input wattage	400 Watt
Length of stroke	18 mm
Max. cut in wood	90° 65 mm
Max. cut in steel	90° 6 mm
Strokes per minute	500-3100 p.m.
Dimensions (L x B x H)	208 x 77 x 199 mm
Net weight	1,9 kg

Jigsaw blade and hex wrench.

4324



# Electrical tools

## Saws

### 16091056 Jigsaw 4340FCT - 135 mm

Input wattage	720 Watt
Length of stroke	26 mm
Max. cut in wood	90° 135 mm
Max. cut in steel	90° 10 mm
Strokes per minute	800-2800 p.m.
Pendular movement	3 positions
Net weight	2,4 kg
Dimensions (L x B x H)	236 x 73 x 204 mm

Anti-splintering device, wrench, 6 jigsaw blades, dust nozzle, cover plate

4340FCT



### 16091057 Jigsaw 4341FCT - 135 mm

Input wattage	720 Watt
Length of stroke	26 mm
Max. cut in wood	90° 135 mm
Max. cut in steel	90° 10 mm
Strokes per minute	800-2800 p.m.
Pendular movement	3 positions
Net weight	2,4 kg
Dimensions (L x B x H)	274 x 73 x 188 mm

Anti-splintering device, wrench, 6 jigsaw blades, dust nozzle, cover plate

4341FCT



### 16091068 Reciprocating saw JR3050T

Input wattage	1010 Watt
Length of stroke	28 mm
Max. cut in wood	90 mm
Max. cut in pipe	90 mm
Strokes per minute	2800 p.m.
Dimensions (L x B x H)	452 x 97 x 170 mm
Net weight	3,2 kg

Recipro blades

JR3050T



### 16091070 Reciprocating saw JR3060T

Input wattage	1250 Watt
Length of stroke	32 mm
Max. cut in wood	255 mm
Max. cut in pipe	130 mm
Strokes per minute	2800 p.m.
Dimensions (L x B x H)	485 x 99 x 181 mm
Net weight	4,2 kg

Recipro blades

JR3060T



### 16091073 Reciprocating saw JR3070CT

Input wattage	1510 Watt
Length of stroke	32 mm
Max. cut in wood	255 mm
Max. cut in pipe	130 mm
Strokes per minute	2800 p.m.
Dimensions (L x B x H)	485 x 99 x 181 mm
Net weight	4,3 kg

Recipro blades

JR3070CT



# Electrical tools

## Router and trimmer with light

### 16092003 Router 3620 - 8 mm

Input wattage	860 Watt
Collet capacity	8 mm
No load speed	29000 t.p.m.
Max. plunge capacity	35 mm
Dimensions (L x B x H)	110 x 145 x 211 mm
Net weight	2,4 kg

Straight guide assembly, wrenches (8, 13, 22 mm) and dust collection

3620



### 16092012 Router RP1110C - 8 mm

Input wattage	1100 Watt
Collet capacity	8 mm
No load speed	8000-24000 t.p.m.
Max. plunge capacity	57 mm
Dimensions (L x B x H)	110 x 150 x 260 mm
Net weight	3,4 kg

Template guide, straight guide, 8 mm and 1/4" collet cone assy, dust nozzle, and wrench (x2)

RP1110C



### 16092009 Router 3612 - 12 mm

Input wattage	1650 Watt
Collet capacity	12 mm
No load speed	22000 t.p.m.
Max. plunge capacity	60 mm
Base dimensions	160 mm
Dimensions (L x B x H)	160 x 287 x 297 mm
Net weight	5,8 kg

Guide holder assembly, dust nozzle, straight guide, wrenches (8 & 24 mm), and 1/2" collet cone

3612



### 16092018 Trimmer with light 3707F - 6 mm

Input wattage	440 Watt
Collet capacity	6 mm
No load speed	35000 t.p.m.
Dimensions (L x B x H)	90 x 90 x 204 mm
Net weight	1,2 kg

Trimmer guide assembly, straight guide assembly, 10 mm template guide, 1/4" TCT straight bit, wrenches (10 & 17 mm), and collet cone.

3707F



### 16092020 Trimmer with light 3708F - 6 mm

Input wattage	440 Watt
Collet capacity	6 mm
No load speed	35000 t.p.m.
Dimensions (L x B x H)	103 x 117 x 308 mm
Net weight	1,3 kg

Trimmer guide assembly, straight guide assembly, 10 mm template guide, 1/4" TCT straight bit, wrenches (10 & 17 mm), and collet cone.

3708F



# Electrical tools

## Sanding machines

### 16092006 Biscuit jointer 3901 - 100 mm

Input wattage	590 Watt
Blade diameter	100 mm
Thickness max of the slit	4 mm
Max. cutting depth	20 mm
No load speed	11000 t.p.m.
Dimensions (L x B x H)	307 x 125 x 138 mm
Net weight	2,8 kg

Cutter, angle guide, dust bag, lock nut wrench and facing fence

3901



### 16093019 Sanding machine of palm B04553 112 x 100 mm

Input wattage	160 Watt
Pad size	112 x 100 mm
Abrasive sheet	114 x 140 mm
Orbit diameter	1,5 mm
Orbits per minute	1400 p.m.
Dimensions (L x B x H)	120 x 112 x 137 mm
Net weight	0,95 kg

Abrasive papers (pack of 6), dust bag assembly, and punch plate.

B04553



### 16093022 Sanding machine of palm B04561 112 x 100 mm

Input wattage	160 Watt
Pad size	112 x 100 mm
Three square size	96 x 96 x 96 mm
Abrasive sheet	114 x 102 mm
Delta sheet size	96 x 96 x 96 mm
Orbit diameter	1,5 mm
Orbit per minute	1400 p.m.
Dimensions (L x B x H)	209 x 112 x 129 mm
Net weight	0,95 kg

Abrasive papers (pack of 6) dust bag assembly, punch plate

B04561



### 16093036 Orbit sander B06030 - 150 mm

Input wattage	310 Watt
Base dimensions	150 mm
Pad size	150 mm
Orbit diameter	3 mm
Orbits per minute	4000-10000 p.m.
Dimensions (L x B x H)	309 x 150 x 181 mm
Net weight	2,3 kg

Abrasive disc., rubber pad, wrench, and dust bag.

B06030



### 16093034 Orbit sander B06040 - 150 mm

Input wattage	750 Watt
Base dimensions	150 mm
Pad size	150 mm
Orbit diameter	5,5 mm
Mouvements excentriques	180-670 p.m.
No load speed	1600-5800 t.p.m.
Dimensions (L x B x H)	316 x 150 x 132 mm
Net weight	2,7 kg

Abrasive disc., rubber pad, wrench, joint and carrying case.

B06040



# Electrical tools

## Sanding machines

### 16093027 Sander polisher 9227CB - 180 mm

Input wattage	1200 Watt
Fibre disc diameter	180 mm
Pad size	180 mm
No load speed	600/3000 t.p.m.
Axle	M14
Dimensions (L x B x H)	470 x 85 x 150 mm
Net weight	3 kg

Wool pad, sleeve, and hex wrench

9227CB



### 16089033 Sanding machine with disc 9565CVL - 125 mm

Input wattage	1400 Watt
Fibre disc diameter	125 mm
No load speed	2000-6800 t.p.m.
Spindle size	M14
Dimensions (L x B x H)	311 x 139 x 114 mm
Net weight	1,8 kg

Meule, plateau, protection en PVC du carter à engrenages, poignée latérale, key à ergots, capot de protection

9565CVL



### 16093046 Filing sanders 9032 - 9 mm

Input wattage	500 Watt
Belt size	9 x 533 mm
Belt speed	300-1700 m/min.
Depth max of sanding	110 mm
Dimensions (L x B x H)	420 x 158 x 78 mm
Net weight	1,5 kg

Dust nozzle

9032



### 16093026 Filing sanders 9911 - 76 mm

Input wattage	650 Watt
Belt size	76 x 457 mm
Belt speed	75-270 m/min.
Dimensions (L x B x H)	262 x 132 x 141 mm
Net weight	2,6 kg

1 belt and dust bag

9911



### 16093010 Filing sanders 9924DB - 76 mm

Input wattage	850 Watt
Belt size	76 x 610/620 mm
Belt speed	400 m/min.
Total length	355 mm
Net weight	4,8 kg

Abrasive belt, cork/carbon pad, and dust bag

9924DB



### 16093043 Filing sanders 9903 - 76 mm

Input wattage	1010 Watt
Belt size	76 x 533 mm
Belt speed	210-440 m/min.
Dimensions (L x B x H)	296 x 143 x 157 mm
Net weight	4,3 kg

Abrasive belt, cork/carbon pad, and dust bag

9903





# Electrical tools

## Sanding machines and planes

### 16093045 Belt sander 9920 - 76 mm

Input wattage	1010 Watt
Belt size	76 x 610 mm
Belt speed	210-440 m/min.
Total length	334 x 143 x 157 mm
Net weight	4,5 kg

Wool pad, sleeve and hex wrench

9920



### 16093042 Belt sander 9404 - 100 mm

Input wattage	1010 Watt
Belt size	100 x 610 mm
Belt speed	210-440 m/min.
Dimensions (L x B x H)	334 x 143 x 157 mm
Net weight	4,7 kg

Abrasive belt, Cork/Carbon pad, and dust bag.

9404



### 16093041 Belt sander 9403 - 100 mm

Input wattage	1200 Watt
Belt size	100 x 610 mm
Belt speed	500 m/min.
Dimensions (L x B x H)	353 x 164 x 157 mm
Net weight	5,9 kg

1 abrasive belt and dust bag assembly.

9403



### 16090009 Planes 1902K - 82 mm

Input wattage	580 Watt
Breadth of blades	82 mm
No load speed	16000 t.p.m.
Planing depth	1 mm
Max rebate depth	9 mm
Dimensions (L x B x H)	290 x 160 x 160 mm
Net weight	2,5 kg

Socket wrench, TCT reversible mini blades, and blade holding plates

1902K



### 16090008 Planes 1923HK - 82 mm

Input wattage	850 Watt
Breadth of blades	82 mm
No load speed	16000 t.p.m.
Planing depth	3,5 mm
Max rebate depth	23 mm
Dimensions (L x B x H)	294 x 130 x 173 mm
Net weight	3,5 kg

Blade adjustment assembly, socket wrench, carbide mini blades (x2), rebate fence (guide rule) and dust bag.

1923HK



# Electrical tools

## Planes and blower

### 16090003 Planes 1100 - 82 mm

Input wattage	950 Watt
Breadth of blades	82 mm
No load speed	16000 t.p.m.
Planing depth	3 mm
Max rebate depth	20 mm
Dimensions (L x B x H)	415 x 125 x 140 mm
Net weight	4,9 kg

Blade gauge assembly, socket wrench, rebate fence (guide rule), carbide mini blades, and set plates for mini blades.

1100



### 16090005 Planes 1911B - 110 mm

Input wattage	900 Watt
Breadth of blades	110 mm
No load speed	16000 t.p.m.
Planing depth	2 mm
Dimensions (L x B x H)	355 x 160 x 172 mm
Net weight	4,2 kg

Sharpening holder assembly, socket wrench, cutter leveller, HSS planer blades 110 mm (x2), planing fence (guide rule).

1911B



### 16094008 Wet and dry vacuum cleaner 440

Input wattage	1000 Watt
Volume flow (Air)	3,0 m³/min.
Max output power tool wattage	2000 Watt
Tank capacity	dry 17 litres
	wet 35 litres
Height	600 mm
Net weight	8 kg

2 flexible hoses, extension tubes, corner nozzle, crevice nozzle, brush for floors and brush for liquids.

440



### 16094015 Wet and dry vacuum cleaner 445X

Input wattage	1350 Watt
Volume flow (Air)	3,7 m³/min.
Max output power tool wattage	2000 Watt
Tank capacity	dry 40 litres
	wet 50 litres
Height	699 mm
Net weight	15,8 kg

2 flexible hoses, extension tubes, corner nozzle, crevice nozzle, brush for floors and brush for liquids.

445X



### 16094041 Wet and dry vacuum cleaner 446LX

Input wattage	1500 Watt
Max output power tool wattage	2000 Watt
Tank capacity	dry 27 litres
	wet 27 litres
Cleaning of automatic filter	no
	manual yes
Net weight	10 kg

2 flexible hoses, extension tubes, corner nozzle, crevice nozzle, brush for floors and brush for liquid.

446LX



### 16094016 Blower UB1101

Input wattage	600 Watt
No load speed	0-16000 t.p.m.
Max air pressure	5,5kPa
Volume flow (Air)	0-2,8 m³/min.
Dimensions (L x B x H)	480 x 170 x 180 mm
Net weight	1,7 kg

Nozzle and dustbag

UB1101



# Electrical tools

## Electrical tools

### 16089024 Concrete planer PC1100 - 110 mm

Input wattage	1020 Watt
Max. wheel diameter	110 mm
Hole diameter	15 mm
No load speed	10000 t.p.m.
Dimensions (L x B x H)	418 x 80 x 142 mm
Net weight	4,3 kg

Depressed centre diamond wheel, pin spanner, 5 mm hex wrench, dust bag assembly, screwdriver

**PC1100**



### 16089024 Concrete cutter 4101RH - 125 mm

Input wattage	860 Watt
Max. wheel diameter	125 mm
Depth of cut at 90°	41,5 mm
Depth of cut at 45°	26 mm
No load speed	12000 t.p.m.
Dimensions (L x B x H)	236 x 223 x 158 mm
Net weight	2,9 kg

110 mm diamond wheel, wrenches, water plug+ tube and earth leakage breaker

**4101RH**



### 16089131 Concrete cutter 4112S - 305 mm

Input wattage	2400 Watt
Max. wheel diameter	305 mm
Hole diameter	25,4 mm
Depth of cut at 90°	100 mm
No load speed	3500 t.p.m.
Dimensions (L x B x H)	648 x 240 x 273 mm
Net weight	10,3 kg

Wrench

**4112S**



### 16089136 Disc cutter DPC7311 - 355 mm

Max. wheel diameter	355 mm
Max. cutting depth	122 mm
Hole diameter	20 mm
Moteur	2-temps-73 cc
Power	4,2 kW / 5,7 cv
Peripheral speed	80 m / sec.
Dimensions (L x B x H)	800 x 290 x 380 mm
Net weight	9,9 kg

Tool kit and dust suppression kit

**DPC7311**



### 16089111 Wall chaser SG150 - 150 mm

Input wattage	1800 Watt
Max. wheel diameter	150 mm
Max. cutting depth	7-45 mm
Cutting width	7-35 mm
No load speed	7800 t.p.m.
Dimensions (L x B x H)	410 x 195 mm
Net weight	5,6 kg

2 diamond blade, key

**SG150**



# Electrical tools

## Gun with hot air and generator

### 16094045 Gun with hot air HG5002K

Input wattage		1600 Watt
Temperature	B	350 °C
	H	500 °C
Air flow	B	300 liter/min.
	H	500 liter/min.
Net weight		0,6 kg

Reflector nozzle, wide slot nozzle, glass protection nozzle

**HG5002K**



### 16094046 Gun with hot air HG650CK

Input wattage		2000 Watt
Temperature		80 - 650 °C
Air flow		200 - 500 liter/min.
Net weight		0,78 kg

Reflector nozzle, wide slot nozzle, glass protection nozzle

**HG650CK**



### 16094027 Generator G17001 - 1400 Watt

Max. power	1650 Watt
Power goes on.	1400 Watt
Alternating current	230 V, 50 Hz
Direct current	12 Volt 8,3 A
Sound level	61 db
Cubic capacity	85,8 cc
Fuel tank capacity	4 liter
Uninterrupted functioning	4 hours
Dimensions (L x B x H)	490 x 295 x 445 mm
Net weight	19 kg

Tool kit

**G17001**



### 16094030 Generator G43001S - 3800 Watt

Max. power	4300 Watt
Power goes on.	3800 Watt
Alternating current	230 V, 50 Hz
Direct current	12 Volt 8,3 A
Sound level	66 db
Cubic capacity	265 cc
Fuel tank capacity	18 liter
Uninterrupted functioning	6,6 hours
Dimensions (L x B x H)	580 x 527 x 618 mm
Net weight	66 kg

Tool kit

**G43001S**



### 16094044 Generator G7300R - 5500 Watt

Max. power	6300 Watt
Power goes on.	5500 Watt
Alternating current	230 V, 50 Hz
Direct current	12 Volt 8,3 A
Cubic capacity	404 cc
Fuel tank capacity	27,5 liter
Uninterrupted functioning	9 hours
Dimensions (L x B x H)	690 x 530 x 530 mm
Net weight	90 kg

Tool kit

**G7300R**



# Electrical tools

## Range of batteries

### Equipment features

- Variospeed (V) electronics
- 20-level adjustable torque, plus drilling level
- Clockwise and anticlockwise rotation
- Quick stop
- Spindle with hexagon recess for screwdriver bits
- Pistol grip for optimum power transmission in direction of drilling
- Fatigue-free operation due to perfect ergonomics
- Sturdy die cast gear housing
- Easy and quick change of battery pack
- Charger (charging time approx. 2 hours)

### Comparative device characteristics

4,8 VOLT CORDLESS DRILL / SCREWDRIVER POWERMAXX	
Battery pack voltage	4,8 V
Capacity of battery pack	1,25 Ah
Maximum torque, soft	5 Nm
Maximum torque, hard	9 Nm
Drilling diameter in	
- Steel	3 mm
- Wood	6,5 mm
No-load speeds	0-200/0 - 600/min
Weight (including battery pack)	0,66 kg
<b>Type</b> Order no. and machine equipment (chargers, capacity of the battery packs) see current price list	
<b>Adapter</b> for using the 4,8 Volt battery pack in the current Metabo chargers	
<b>Screw-type angle attachment for PowerMaxx</b> for fixingscrews more easily at locations difficult to reach specially for PowerMaxx	
• magnetic bit holder with 1/4" (6.35 mm) hexagonal shank • gears made of special steel • suitable for Clockwise and anticlockwise rotation	
<b>Order no.</b>	
PowerMaxx	
6.31976	
6.30650	



**PowerMaxx**

### Equipment features

- Selectable impulse mode
- Variospeed (V) electronics
- 20-level adjustable torque, plus drilling level
- Clockwise and anticlockwise rotation
- Quick stop
- Quick-action keyless chuck and spindle stop gear for convenient one-hand tool change : Metabo «Quick»
- T-handle for optimum centre of gravity
- Fatigue-free operation due to perfect ergonomics
- Rubber-coated handle
- 3-level planetary metal gears
- Gentle gear change
- Built-in collector fan to prevent overheating
- Bit case for two bits
- Maximum system flexibility through free combination of chargers and battery packs (within a volt class)
- Easy and quick change of battery pack
- Li-ion battery packs for up to 40% more power with up to 40% less weight. No memory effects



**BSZ12**



**BSZ12 Impuls**



**BSZ14,4 Impuls**



**BSZ18 Impuls**

### Special advantages

	12 VOLTS CORDLESS DRILL / SCREWDRIVER BSZ 12	12 VOLTS CORDLESS DRILL / SCREWDRIVER BSZ 12 IMPULS	14,4 VOLTS CORDLESS DRILL / SCREWDRIVER BSZ 14,4 IMPULS	18 VOLTS CORDLESS DRILL / SCREWDRIVER BSZ 18 IMPULS
Selectable impulse mode		•	•	•

### Comparative device characteristics

	12 V <sup>1)</sup>	12 V <sup>1)</sup>	14,4 V <sup>2)</sup>	18 V <sup>3)</sup>
Battery pack voltage	12 V <sup>1)</sup>	12 V <sup>1)</sup>	14,4 V <sup>2)</sup>	18 V <sup>3)</sup>
Capacity of battery pack	2,2 Ah	2,2 Ah	2,2 Ah	2,2 Ah
Maximum torque, soft	22 Nm	22 Nm	24 Nm	28 Nm
Pulse torque		26 Nm	28 Nm	32 Nm
Maximum torque, hard	52 Nm	52 Nm	55 Nm	62 Nm
Drilling diameter in				
- Steel	10 mm/5 mm	10 mm/5 mm	12 mm/5 mm	12 mm/6 mm
- Wood	25 mm/20 mm	25 mm/20 mm	30 mm/22 mm	30 mm/22 mm
No-load speeds	0-400/0-1.350/min	0-400/0-1.350/min	0-400/0-1400/min	0-450/0-1.450/min
Drilling spindle thread	1/2"-20 UNF	1/2"-20 UNF	1/2"-20 UNF	1/2"-20 UNF
Chuck capacity	1,5-13 mm	1,5-13 mm	1,5-13 mm	1,5-13 mm
Weight (including battery pack)	1,7 kg	1,7 kg	1,8 kg	1,9 kg

1) at maximum voltage, nominal voltage 10,8 volts

2) at nominal voltage, maximum voltage 16 volts

3) at nominal voltage, maximum voltage 20 volts

# Electrical tools

## Cordless drills / screwdrivers

### Equipment features

- Selectable impulse mode
- Variospeed (V) electronics
- High speed for ideal cutting speed
- 20-level adjustable torque, plus drilling level
- Clockwise and anticlockwise rotation
- Quick stop
- Quick-action keyless chuck and spindle stop gear for convenient one-hand tool change : Metabo «Quick»
- T-handle for optimum centre of gravity
- Fatigue-free operation due to perfect ergonomomy
- Rubber-coated handle
- Additional handle
- 3-level planetary metal gears
- Die cast aluminium gear housing
- Gentle gear change
- Built-in collector fan to prevent overheating
- Bit case for two bits
- Maximum system flexibility through frere combination of chargers and battery packs (within a volt class)
- Easy and quick change of battery pack



**BSP 12 Plus**



**BSP 15,6 Plus**



**BSP 18 Plus**

12 VOLTS COR- DLESS DRILLS / SCREWDRIVER BSP 12 PLUS	15,6 VOLTS COR- DLESS DRILLS / SCREWDRIVER SP 15,6 PLUS	18 VOLTS COR- DLESS DRILLS / SCREWDRIVER BSP 18 PLUS
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### Comparative device characteristics

Battery pack voltage	12 V	15,6 V	18 V
Maximum torque, soft	20 Nm	26 Nm	30 Nm
Pulse torque	22 Nm	28 Nm	32 Nm
Maximum torque, hard	55 Nm	60 Nm	65 Nm
Drilling diameter in			
- Steel	13 mm/8 mm	13 mm/8 mm	13 mm/8 mm
- Wood	40 mm/20 mm	45 mm/25 mm	50 mm/25 mm
No-load speeds	0-400/0-1.400/min	0-400/0-1.400/min	0-400/0-1.400/min
Drilling spindle thread	1/2"-20 UNF	1/2"-20 UNF	1/2"-20 UNF
Chuck capacity	1,5-13 mm	1,5-13 mm	1,5-13 mm
Weight (including battery pack)	2,5 kg	2,6 kg	2,8 kg

### Standard equipment

	Quick-action keyless chuck Futuro Plus, additional handle, carry case	Quick-action keyless chuck Futuro Plus, additional handle, carry case	Quick-action keyless chuck Futuro Plus, additional handle, carry case
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# Electrical tools

## Impact drills

### Equipment features

- Sturdy double-shell housing
- Powerful impact mechanism
- Long-life motor
- Lightweight design prevents fatigue
- Ergonomic housing design with large trigger button
- Extra handle with drill depth-stop
- Auto-stop carbon brushes

**600 WATT  
ELECTRONIC  
IMPACT DRILL  
SB E 600 R+L IMPULS**

### Special advantages

• Selectable impulse mode	•
• Variospeed (V) electronics	•
• Thumbwheel for preselection of speed	•
• Clockwise and anticlockwise rotation	•
• Geared chuck	
• Quick-action keyless chuck Futuro Plus	•
• Spindle with hexagon recess for screwdriver bits	•



**SBE 600 R+L  
Impuls**

### Comparative device characteristics

Torque	5 Nm
Drilling diameter in	
- Concrete	12 mm
- Steel	10 mm
- Softwood	25 mm
No-load speed	0-2800/min.
Rated input power	600 W
Output power	350 W
Rated load speed	1.700/min.
Maximum impact rate	50.000/min
Collar diameter	43 mm
Drilling spindle thread	1/2"-20 UNF
Chuck capacity	1,5 - 13 mm
Drilling spindle with hexagon socket recess	1/4" (6,35 mm)
Weight (without mains cable)	1,8 kg

### Standard equipment

	Quick-action keyless chuck Futuro Plus, additional handle, drill depth stop, carry case
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# Electrical tools

## Impact drills

### Equipment features

- Variospeed (V) electronics
- Thumbwheel for preselection of speed
- Die cast aluminium gear housing
- Optimal cooling by axial/radial fan
- Two-speed gear unit
- Powerful impact mechanism
- Robust Metabo Marathon motor
- Metabo S-automatic torque limiting clutch
- Metabo winding protection grid
- Clockwise and anticlockwise rotation
- Spindle with hexagon recess for screwdriver bits
- Ergonomic housing design for ideal handling
- Rubber-coated handle
- Auto-stop carbon brushes

### Special advantages

	705 WATT ELECTRONIC TWO-SPEED IMPACT DRILL SBE 705	750 WATT ELECTRONIC TWO-SPEED IMPACT DRILL SBE 750
Quick-action keyless chuck Futuro Plus	•	
Quick-action keyless chuck Futuro Top		•
Extra handle with drill depth-stop	•	
Rubber coated additional handle with drill depth-stop		•

### Comparative device characteristics

Torque	16 Nm/6 Nm	18 Nm/6 Nm
Drilling diameter in		
- Concrete	20 mm	20 mm
- Steel	13 mm/8 mm	13 mm/8 mm
- Softwood	40 mm / 25 mm	40 mm / 25 mm
No-load speed	0-1.000/0 - 3.000/min	0-1.000/0 - 3.000/min
Rated input power	705 W	750 W
Output power	410 W	440 W
Rated load speed	560 / 1.700 / min	530 / 1.600 / min
Maximum impact rate	57.000/min	57.000/min
Collar diameter	43 mm	43 mm
Drilling spindle thread	1/2"-20 UNF	1/2"-20 UNF
Chuck capacity	1,5-13 mm	1-13 mm
Drilling spindle with hexagon socket recess	1/4" (6,35 mm)	1/4" (6,35 mm)
Weight (without mains cable)	2,3 kg	2,3 kg

### Standard equipment

	Quick-action keyless chuck Futuro Plus, additional handle, drill depth stop, carry case	Quick-action keyless chuck Futuro Top, additional handle, drill depth stop, carry case
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**SBE 705**



**SBE 750**

# Electrical tools

## Impact drills

### Equipment features

- Thumbwheel for preselection of speed
- Die cast aluminium gear housing
- Optimal cooling by axial/radial fan
- Two-speed gear unit
- Powerful impact mechanism
- Robust Metabo Marathon motor
- Metabo S-automatic torque limiting clutch
- Metabo winding protection grid
- Clockwise and anticlockwise rotation
- Spindle with hexagon recess for screwdriver bits
- Ergonomic housing design for ideal handling
- Rubber-coated handle
- Auto-stop carbon brushes


**SBE 850 Impuls**
**SBE 850 Contact**
**SBE 1010 Plus**

### Special advantages

Selectable impulse mode	•		
Metabo «Contact» technology		•	
Metabo CODE! system : electronic anti-theft system, activated by CODE! key (accessory)			•
Vario Constamatic (VC) full-wave electronics	•	•	
Vario Tacho Constamatic (VTC) full-wave electronics			•
Thumbwheel for setting the torque	•		
Quick-action keyless chuck	•	•	•
Overload protection			•
No-volt release switch			•
Extra handle with drill depth-stop	•	•	
Rubber coated additional handle with drill depth-stop			•
Brush wear indicator			•

### Comparative device characteristics

Torque	22 Nm/9 Nm	22 Nm/9 Nm	28 Nm/10 Nm
Drilling diameter in			
- Concrete	20 mm	20 mm	20 mm
- Steel	13 mm/8 mm	13 mm/8 mm	16 mm/8 mm
- Softwood	40 mm / 25 mm	40 mm / 25 mm	40 mm / 25 mm
No-load speed	0-1.000/0 - 3.000/min	0-1.000/0 - 3.000/min	0-900/0 - 2.600/min
Rated input power	850 W	850 W	1010 W
Output power	480 W	480 W	610 W
Rated load speed	760 / 2.300 / min	760 / 2.300 / min	900 / 2.600 / min
Maximum impact rate	57.000/min	57.000/min	50.000/min
Collar diameter	43 mm	43 mm	43 mm
Drilling spindle thread	1/2"-20 UNF	1/2"-20 UNF	1/2"-20 UNF
Chuck capacity	1,5-13 mm	1,5-13 mm	1-13 mm
Drilling spindle with hexagon socket recess	1/4" (6,35 mm)	1/4" (6,35 mm)	1/4" (6,35 mm)
Weight (without mains cable)	2,4 kg	2,4 kg	2,4 kg

### Standard equipment

	Quick-action keyless chuck, additional handle, drill depth stop, carry case	Quick-action keyless chuck, additional handle, drill depth stop, carry case	Quick-action keyless chuck Futuro Top, long additional handle, drill depth stop, carry case
<b>Type Order no. machine with</b>	<b>SBE 850 Impuls</b>	<b>SBE 850 Contact</b>	<b>SBE 1010 Plus</b>
- Futuro Plus keyless chuck	6.00849.50	6.00860.50	-
- Futuro Top keyless chuck	6.00849.51	6.00860.51	6.01108.50

# Electrical tools

## Stirrers

### Equipment features

- Ideal stirring and mixing device for tough permanent use for plastering, painting and brickwork
- Suitable for stirring thick viscous substances
- Die cast aluminium gearbox housing
- Operating comfort and safety by auxiliary handle
- Variospeed (V) electronics
- Soft start
- Quick change adapter (accessory)

### Comparative device characteristics

	1100 WATT ELECTRONIC STIRRER RWE 1100
Torque	45 Nm
Max. stirring basket diameter	160 mm
No-load speed	0 - 700 / min
Rated input power	1.100 W
Output power	660 W
Rated load speed	480 / min.
Collar diameter	43 mm
Bit retainer	M14 female thread
Weight (without mains cable)	3,4 kg
<b>Standard equipment</b>	Additional handle
<b>Type Order no.</b>	RWE 1100 6.01111



**RWE 1100**

### Accessories for the stirrer

#### Agitator paddles with M14 male thread

Diameter mm	Length mm	Max. material quantity kg	Maximum speed / min	Order no.
<b>Type RS 2, mixing effect from top to bottom</b>				
Colour, lacquer, cement slurry/finished mortar				
110	600/600	15 - 40	500 - 700	6.31950
140	600/600	30 - 60	500 - 700	6.31951



#### Type RS 3, mixing effect from top to bottom

Plaster, mortar, filler compound, thermal insulation materials

100	600/600	10 - 25	500 - 700	6.31952
130	600/600	20 - 50	500 - 700	6.31953
160	600/600	30 - 150	500 - 700	6.31954



#### Type RS 3, mixing effect from bottom to top

Plaster, mortar, filler compound, thermal insulation materials

100	600/600	10 - 25	500 - 700	6.31963
130	600/600	20 - 50	500 - 700	6.31964
160	600/600	30 - 150	500 - 700	6.31965



#### Type RS 4, mixing effect from bottom to top

2-component materials

100	600/600	10 - 20	500 - 700	6.31955
130	600/600	20 - 30	500 - 700	6.31956
160	600/600	30 - 150	500 - 700	6.31957



#### Type RS 8

Liquids, granules, float finish

120	600/600	35 - 70	500 - 700	6.31958
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### Connectors with M14 female thread

for machines with other spindle holders

	<b>Order no.</b>
1/2" - 20 UNF, M14 female thread	6.31959
5/8" - 16 UN, M14 female thread	6.31960
M14 outside thread, M14 female thread	6.31961
M18 outside thread, M14 female thread	6.31962



### Keyless adapter

for easily removing or fitting the agitator paddle for cleaning or replacement purposes	6.31966
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# Electrical tools

## Multihammers

### Equipment features

- Suitable for bits and accessories with SDS Plus shank end or cylindrical shaft (without impact)
- Hammer stop
- Rotation stop
- Metabo «Quick» drill chuck change
- Clockwise and anticlockwise rotation
- Thumbwheel for preselection of speed
- Robust Metabo Marathon motor
- Two-speed gear unit
- Pneumatic high-performance hammer mechanism
- Die cast aluminium gear housing
- Ergonomic housing design for fatigue-proof operation
- Rubber-coated handle
- Rubber coated additional handle with drill depth-stop
- Metabo S-automatic torque limiting clutch
- Metabo winding protection grid
- Auto-stop carbon brushes

### Special advantages

	MULTI-PURPOSE HAMMER UHE 22 MULTI	MULTI-PURPOSE HAMMER UHE 28 MULTI
Metabo CODE! system : electronic anti-theft system, activated by CODE! key (accessory)		•
Variospeed (V) electronics	•	
Vario Tacho Constamatic (VTC) full-wave electronics		•
Overload protection		•
No-volt release switch		•
Brush wear indicator		•



**UHE 22**

### Comparative device characteristics

Torque	15 Nm/6 Nm	22 Nm/8 Nm
Drilling diameter in		
- Concrete with hammer bits	22 mm	28 mm
- Brickwork with drill bits		80 mm
- Steel	13 mm/8 mm	16 mm/8 mm
- Softwood	30 mm / 20 mm	40 mm / 20 mm
No-load speed	0-1.050/0 - 2.900/min	0-950/0 - 2.600/min
Rated input power	705 W	1010 W
Output power	410 W	600 W
Rated load speed	700 / 1.900 / min	950 / 2.600 / min
Maximum impact rate	4.800/min	4.400/min
Single-blow energy	0 - 2,2 J	0 - 2,4 J
Collar diameter	43 mm	43 mm
Bit retainer	SDS Plus	SDS Plus
Chuck capacity	1,5 - 13 mm	1,5 - 13 mm
Weight	2,7 kg	2,8 kg



**UHE 28**

### Standard equipment

	Hammer chuck for tools with SDS Plus shank bit, quick-action, keyless chuck for tools with cylindrical shafts, additional handle, drill depth stop, carry case	Hammer chuck for tools with SDS Plus shank bit, quick-action, keyless chuck for tools with cylindrical shafts, additional handle, drill depth stop, carry case
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# Electrical tools

## Combination hammers

### Equipment features

- Suitable for bits and accessories with SDS Plus shank bit
- With the appropriate accessories, it is also suitable for bits and accessories with straight shafts (no impact)
- Hammer stop
- Rotation stop
- Clockwise and anticlockwise rotation
- Metabo «Quick» drill chuck change
- Robust Metabo Marathon motor
- Pneumatic high-performance hammer mechanism
- Die cast aluminium gear housing
- Ergonomic housing design for fatigue-proof operation
- Rubber-coated handle
- Rubber coated additional handle with drill depth-stop
- Metabo S-automatic torque limiting clutch
- Metabo winding protection grid
- Auto-stop carbon brushes
- Brush wear indicator

### Special advantages

	ELECTRONIC COMBINATION HAMMER KHE 26 CONTACT	ELECTRONIC COMBINATION HAMMER KHE 28
Technologie Metabo "Contact"	•	
Metabo CODE! system : electronic anti-theft system, activated by CODE! key (accessory)		•
Vario Constamatic (VC) full-wave electronics	•	
Vario Tacho Constamatic (VTC) full-wave electronics		•
Thumbwheel for preselection of speed	•	
No-volt release switch		•

### Comparative device characteristics

	16 Nm	20 Nm
Torque		
Drilling diameter in		
- Concrete with hammer bits	26 mm	28 mm
- Concrete with milling bits	65 mm	80 mm
- Brickwork with drill bits	0 - 1.050/min	0 - 1.000/min
No-load speed	0-1.050 / min	0-1000 / min
Rated input power	800 W	1010 W
Output power	450 W	610 W
Rated load speed	830 / min	1000 / min
Maximum impact rate	4.830/min	4.600/min
Single-blow energy	0 - 2,3 J	0 - 2,5 J
Collar diameter	43 mm	43 mm
Bit retainer	SDS Plus	SDS Plus
Weight (without mains cable)	2,7 kg	2,7 kg



KHE 26



KHE 28

### Standard equipment

	Hammer chuck for tools with SDS Plus shank bit, additional handle, drill depth stop, carry case
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### Equipment features

Voir ci-dessus

- Metabo CODE! : system : electronic anti-theft system, activated by CODE! key (accessory)
- Vario Tacho Constamatic (VTC) full-wave electronics

### Comparative device characteristics

	ELECTRONIC COMBINATION HAMMER KHE 32
Torque	25 Nm
Drilling diameter in	
- Concrete with hammer bits	32 mm
- Brickwork with drill bits	80 mm
No-load speed	0 - 780 / min
Rated input power	900 W
Output power	480 W
Rated load speed	708 / min
Maximum impact rate	3.800/min
Single-blow energy	0 - 3,5 J
Bit retainer	SDS Plus
Weight (without mains cable)	3,5 kg

### Standard equipment

	Hammer chuck for tools with SDS Plus shank bit, additional handle, drill depth stop, carry case
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KHE 32



# Electrical tools

## Angle grinders

### Equipment features

- Robust Metabo Marathon motor
- Die cast aluminium gear housing
- Metabo S-automatic torque limiting clutch • Spindle stop
- Metabo «Quick» tool quick change
- Additional VibraTech handle for vibration damping
- Adjustment of protective hood without tools
- Ergonomic shape for fatigue-proof rough grinding
- Metabo winding protection grid • Auto-stop carbon brushes
- Versatile applications through the extensive range of accessories

### Comparative device characteristics

	750 WATT ANGLE GRINDER W 7-125 QUICK
Grinding wheel diameter	125 mm
Torque	2,2 Nm
No-load speed	10.000 / min
Rated input power	750 W
Output power	460 W
Rated load speed	6.500 / min
Spindle thread	M14
Weight (without mains cable)	1,8 kg
<b>Standard equipment</b>	Protective cover, inner support flange, «Quick» flange nut, side handle



**W 7-125 Quick**

### Special advantages

	1010 WATT ANGLE GRINDER W 10-125 QUICK
High torque	•

### Comparative device characteristics

Grinding wheel diameter	125 mm
Torque	3 Nm
No-load speed	10.000 / min
Rated input power	1010 W
Output power	600 W
Rated load speed	6.500 / min
Spindle thread	M14
Weight (without mains cable)	1,8 kg
<b>Standard equipment</b>	Protective cover, inner support flange, «Quick» flange nut, side handle



**W 10-125 Quick**

### Equipment features

- Robust Metabo Marathon motor
- Die cast aluminium gearbox housing
- Spindle lock • Rotating main handle without tools
- Additional VibraTech handle for vibration damping
- Adjustment of protective cover without tools
- Ergonomic handle design with integrated switch
- Safety switch : lock against unintentional start
- Especially high torque
- Metabo coil guard • Auto-stop carbon brushes
- Versatile applications by the extensive range of accessories

### Comparative device characteristics

	1400 WATT ANGLE GRINDER W 14-125 ERGO
Grinding wheel diameter	125 mm
Torque	5 Nm
No-load speed	10.000 / min
Rated input power	1400 W
Output power	800 W
Rated load speed	7.300 / min
Spindle thread	M14
Weight (without mains cable)	2,8 kg
<b>Standard equipment</b>	Protective cover, support flange, adjusting nut, side handle, flat-pin spanner



**W 14-125 Ergo**

# Electrical tools

## Angle grinders

### Equipment features

- Robust Metabo Marathon motor
- High efficiency and increased torque by optimum heat dissipation
- Die cast aluminium gear housing
- Spindle lock
- Rotating main handle without tools
- Protective cover adjustment without tools
- Additional VibraTech handle for vibration damping
- Metabo safety switch : lock against unintentional start
- Metabo coil guard
- Auto-stop carbon brushes
- Versatile applications by the extensive range of accessories

### Special advantages

	2100 WATT ANGLE GRINDER W 21-230	2300 WATT ANGLE GRINDER WX 23-230
Starting current limitation		

### Comparative device characteristics

Grinding wheel diameter	230 mm	230 mm
Torque	14 Nm	17 Nm
No-load speed	6.600 / min	6.600 / min
Rated input power	2.100 W	2.300 W
Output power	1.440 W	1.580 W
Rated load speed	4.600 / min	4.600 / min
Drilling spindle thread	M 14	M 14
Weight (without mains cable)	4,8 kg	4,9 kg

### Standard equipment

	Protective cover, inner support flange, adjusting nut, side handle, flat-pin spanner	Protective cover, inner support flange, adjusting nut, side handle, flat-pin spanner
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**W 7-125 Quick**



**W 10-125 Quick**

# Electrical tools

## Straight grinders

### Equipment features

- Hardened and ground collect chuck for precise concentricity of tool
- Spindle lock for easy tool change
- Robust aluminium die cast bearing flange
- Ergonomic shape for fatigue-free grinding
- Vario Constamatic (VC) full-wave electronics
- Thumbwheel for speed preselection
- Robust Metabo Marathon motor
- Metabo coil guard
- Auto-stop carbon brushes

### Special advantages

	710 Watt Electronic straight grinder GE 700	900 Watt Electronic straight grinder GE 900 Plus
The multi-talented one : with extended grinding spindle (double ball bearing in solid steel tube); ideal for grinding and sharpening at difficult to reach places.	•	
The specialist : handy grinder with especially high torque; ideal for grinding inner and outer surfaces in combination with flap wheels		•
Suitable for actuating bending waves	•	

### Comparative device characteristics

Speed of rotation with space	7000 - 27000/min	2500 - 6000/min
Rated input power	710 W	900 W
Output power	430 W	500 W
Rated load speed	20000/min	5000/min
Collet bore of collet chuck	6 mm	6 mm
Weight (without mains cable)	1,8 kg	2 kg
<b>Standard equipment</b>	1 open-jawed spanner	Handle, 1 open-jawed spanner



### Equipment features

- Robust gear and motor design
- Easier and quicker saw blade change
- Low lying saw blade supporting roller
- Quick locking of guide plate for bevel cuts
- Ideal handling by ergonomic design
- Full grip bow type handle
- Blower for free view of cutting line
- Upward sliding grip guard
- Adjustable pendulum stroke
- External dust extraction outlet
- Auto-stop carbon brushes
- Chip break guard in the guide plate
- Guide rail and guiding device available as accessory
- Case for spanner

### Special advantages

	570 Watt Electronic orbital jig saw STE 70	610 Watt Electronic orbital jig saw STE 80 Quick
The multi-talented one : with extended grinding spindle (double ball bearing in solid steel tube); ideal for grinding and sharpening at difficult to reach places.		•
The specialist : handy grinder with especially high torque; ideal for grinding inner and outer surfaces in combination with flap wheels		•
Suitable for actuating bending waves		•

### Comparative device characteristics

Torque	5 Nm	5,5 Nm
Maximum thickness of material in		
- Wood	70 mm	80 mm
- Non-ferrous metals	20 mm	25 mm
- Steel-sheet	6 mm	8 mm
Strokes at no load	1000 - 3000/min	1000 - 3000/min
Rated input power	570 W	610 W
Output power	340 W	360 W
Weight (without mains cable)	2,2 kg	2,3 kg
<b>Standard equipment</b>	Protective glass, grip guard, break guard plates, jig saw blade, allen key	Protective glass, grip guard, attachable guard plate with chip break guard plate, jig saw blade, allen key



# Electrical tools

## Triangular base-plate sanders

### Equipment features

- Universal use for sanding wood, plastics, metals and stone.
- Also suitable for louvre sanding and for sanding varnished surfaces.
- Robust gear design for severe applications
- Spindle with dustproof triple bearing
- Sanding plate holder and base body in sturdy aluminium
- High stock removal rate
- Variospeed (V) electronics
- Thumbwheel for speed preselection
- PU-foamed plate enables flexible adjustment to the workpiece surface.
- Sanding plate with Velcro
- High suction output
- Ideal handling by slim handle and handy recessed grips
- Low housing
- Rotatable sanding plate without tools (360°)
- External dust extraction outlet.



### Special advantages

Dust extraction unit

300 Watt Electronic triangular base-plate sander DSE 300

300 Watt Electronic triangular base-plate sander DSE 300 Intec

### Comparative device characteristics

Sanding plate, dimension (corner to corner)	93 mm	93 mm
Orbital frequency at no-load	14000 - 22000/min	22000/min
Orbital frequency at rated load	18000/min	18000/min
Rated input power	300 W	300 W
Oscillating circuit	1,8 mm	1,8 mm
Weight (without mains cable)	1,2 kg	1,3 kg
<b>Standard equipment</b>	3 perforated sanding sheets (P60, P100, P240), special louvre base-plate, carry case	3 perforated sanding sheets (P60, P100, P240), carry case

### Grinding plates with Velcro

	Order no.
<b>Perforated velcro-faced base-plate</b> for the triangular base-plate sander DS E 300 and DS E 300 Intec (as spare) Dimension from corner to corner : 90 mm	6.24992
<b>Laminated sanding</b> with velcro on the bottom the self-adhesive velcro-faced liner supplied can be fitted to the top of this base-plate so that cling-fit sanding sheets can be fitted for top and bottom sanding of louvres.	6.24971
<b>Self-adhesive liner</b> self-adhesive, velcro-faced liner (as spare for lamellar sanding plate 6.24971)	6.24972

### Perforated cling-fit-sanding sheets, silicone carbide

For : Non-ferrous metals, stone, glass, varnished surfaces

Dimension from corner to corner mm	Grit	Packing unit	Order no.
93	P 120	5	6.24950
93	P 180	5	6.24951
93	P 240	5	6.24952
93	P 320	5	6.24953
93	P 400	5	6.24954
93	P 600	5	6.24955
93	P 1200	5	6.24956



# Electrical tools

## Triangular base-plate sanders



**Perforated cling-fit sanding sheets, corundum abrasive**  
For : wood, metal, painted surfaces

Dimension from corner to corner mm	Grit	Packing unit	Order no.
93	P 40	5	6.24940
93	P 60	5	6.24941
93	P 80	5	6.24942
93	P 100	5	6.24943
93	P 120	5	6.24944
93	P 180	5	6.24945
93	P 240	5	6.24946
93	P 320	5	6.24947
93	P 40	25	6.24980
93	P 60	25	6.24981
93	P 80	25	6.24982
93	P 100	25	6.24983
93	P 120	25	6.24984
93	P 180	25	6.24985
93	P 240	25	6.24986
93	P 320	25	6.24987

### 25 cling-fit-sanding sheets

Range (10xP60, 10xP80, 5xP120) corundum abrasive, for wood, metal and painted surfaces

### Order no.

6.24988



**Perforated cling-fit sanding sheets, silicone carbide, coated**  
For : metal, synthetic materials, varnished surfaces

Dimension from corner to corner mm	Grit	Packing unit	Order no.
93	P 180	5	6.24960
93	P 240	5	6.24961
93	P 320	5	6.24962
93	P 400	5	6.24963



**Cling-fit abrasive nylon web, corundum abrasive**

Grit	Order no.
P 100	6.24958
P 280	6.24959



**Cling-fit abrasive nylon web**

6. 24957



**Cling-fit polishing felt hard**

6.24949

### Scraper blades

For easy removal of old paint, glue, and other residues

	Blade width mm	Order no.
	30	6.31662
	50	6.31663
	70	6.31664
	50 carbide-tipped	6.31661



**Spatula**  
made of spring steel  
Blade width : 60 mm

**Order no.**  
6.31659

### Dust extraction Accessories

		Order no.
	<b>Dust collector cartridge</b> for dust extraction unit with DS E 300 Intec	6.24993
	<b>10 dust filters</b> for the dust collection cartridge 6.24993 of the DS E 300 Intec	6.24995
	<b>Extraction adaptor nozzle</b> for external extraction for the DS E 300/DS E 300 Intec	6.24994
	<b>Suction hose`</b> connector with internal ø 30 mm and connector with outer ø 35 mm Hose length : 5 m Suction hose ø : 19 mm	6.31592
	<b>Transition piece</b> for connecting the suction hose with connector ø 35 mm to an extraction adaptor nozzle ø 30 mm	6.24996
	<b>Adapter</b> for connecting suction hose 6.31592 (30/35 mm connection) to a household vacuum cleaner	6.31593

### Accessories

		Order no.
	<b>Carry case</b>	6.25447
	<b>Metabox I</b> Dimensions : 395 x 295 x 105 mm	6.24599

# Electrical tools

## Disc sanders and sanders

### Equipment features

- Multi-purpose machine for sanding even and cambered surfaces, wood, plastics, non-ferrous metals, sheet steel
- Also suitable for louvre sanding and for sanding varnished surfaces
- Rotating and additional oscillating movement of support plate for optimum finish.
- Variospeed (V) electronics
- Thumbwheel for preselection of speed
- No scratches while placing the running machine on the material (Power Control System)
- Removable handle
- Dust-proof ball bearing
- Velcro-faced backing pad
- Dust extraction unit
- Dust bag holder with dust retaining flap
- External dust extraction outlet



### Special advantages

	400 Watt Electronic disc sander SX E 450 Duo
Duo oscillating circuit setting	•
Support plate (ø 150 mm)	•
Removable additional handle (2 heights)	•
Sturdy aluminium die cast bearing housing	•
Vibration damping, non-slip rubber support	•

### Comparative device characteristics

Sanding plate	150 mm
Orbital frequency at no-load	4000 - 10000/min
Rated input power	400 W
Output power	200 W
Orbital frequency at rated load	8000/min
Oscillating circuit	3/6 mm
Weight (without mains cable)	2,7 kg

### Standard equipment

Velcro-faced backing pad, 3 adhesive sanding sheets (perforated), removable handle, dust bags (paper), dust bag holder, allen key.

### Equipment features

- Universal use for sanding wood, plastics, metals, stone, gypsum and lacquered surfaces
- Powerful motor with high capacity reserve
- Even sanding pattern with high quality sanding plate made of microcellular polyurethane elastomere
- Especially vibration-free by electrodynamic fine balancing
- 4 high quality oscillating buffers and dust-protected quality ball bearing for long service life with continuous use
- Solid aluminium die cast bearing housing
- Sturdy aluminium die cast oscillating plate
- Quick-grip clamping device with rubber-coated pressure pad
- Sanding possible up to the outermost corner
- Dust extraction unit
- Dust bag holder with dust retaining flap
- External dust extraction outlet
- Auto-stop carbon brushes



### Special advantages

	350 Watt Sander Sr 356	350 Watt Electronic sander Sr E 359
Variospeed (V) electronics		•
Thumbwheel for speed preselection		•

### Comparative device characteristics

Sanding plate	92 x 190 mm	112 x 236 mm
Orbital frequency at no-load	22000/min	12000 - 22000/min
Rated input power	350 W	350 W
Output power	190 W	190 W
Orbital frequency at rated load	15000/min	15000/min
Oscillating circuit	2,5 mm	2,5 mm
Weight (without mains cable)	2,5 kg	2,8 kg

### Standard equipment

3 sanding sheets (perforated), removal additional handle, dust bags (paper), dust bag holder

3 sanding sheets (perforated), removal additional handle, dust bags (paper), dust bag holder



# Electrical tools

## Hot air guns and glue guns

### Equipment features

- For dust-free removal of all metal and wood lacquer coats
- For drying fresh lacquer coats and fillers
- For thawing frozen water pipes etc.
- For crimping cable ends
- For repairing welding tents, boats and other similar applications
- High service life due to easy-to-clean air filter
- Powerful motor with optimum device cooling
- Three blower levels
- Ideal handling by ergonomic design

- Safe stationary application due to large non-slip floor space



### Special advantages

	1600 Watt Hot air gun H 1600	2000 Watt Hot air gun HE 2000
Three heating levels	•	
Variably adjustable, electronically controlled temperature regulation		•

### Comparative device characteristics

	250/350/500 l/min	250/270/500 l/min
Volume of air		
Air temperature	50/350/550°C	50 - 600°C
Rated input power	1600 W	2000 W
Weight	0,7 kg	0,75 kg

### Equipment features

- For glueing : wood, plastic, carton, glass, ceramic, stone, textiles, cork, leather, metal, ... on wood, plastics, concrete, stone, ceramic, metal, etc.
- Also suitable for sealing and joining and for repairs with hot-melt type adhesive
- Mechanical glue feed
- Nozzle with heat guard

- Hot-melt type adhesive temperature stabilisation
- Strap and supporting surface on housing for safe stop after use
- Anti-drip nozzle. This prevents adhesive dripping

### Comparative device characteristics

	Glue gun KE 3000
For hot-melt glue sticks	
- Diameter	11 mm
- Length	200 mm
Maximum glue output	18 g/min
Warm-up time	ca. 6 min
Processing temperature	ca. 200°C
Weight	0,25 kg
<b>Standard equipment</b>	Hot-melt type glue stick (200 mm long, transparent)



### Hot-melt glue sticks

	Open time of adhesive sek	Weight kg	Order no.
	<b>Hot-melt glue sticks, light yellow</b>		
	• For gluing wood and wood-like substances, cardboard, leather, etc. (firm glue joints after just brief pressing time)		
	• Setting time measured for a 3 mm thick bead of glue on wood at 20°C		
	ca. 25	0,5	6.30887
	ca. 25	20	6.30891
	<b>Hot-melt glue sticks, transparent</b>		
	• Also suitable for gluing plastics (e.g. polystyrene, polyester and polyamide), fabrics, etc. (strong, elastic glue joints)		
	ca. 35	0,5	6.30886
	ca. 35	20	6.30889

### Nozzle kit

	Order no.
<b>Additional nozzle set</b> Comprising : threaded nozzle bush and two nozzles (grouting nozzle and flat nozzle) for fitting to the threaded bush	6.30885

# Electrical tools

## All purpose and special purpose vacuum units

### Equipment features

- Suitable for extracting dust and solid particles and non-inflammable fluids.
- Optimum noise damping
- Two pleated filters suitable for dust class M, transmittance < 0,5 %
- Easier and quicker filter change
- Fully automatic electromagnetic vibration device
- Long filter service life and large cleaning intervals
- Soft start for careful treatment of the motor blower
- Automatic trailing mechanism for emptying the suction hose completely
- Anti-static basic configuration (anti-static hose as accessory)
- Automatic shutoff that is disconnected while absorbing the suction flow as soon as the maximum filling height of the container is reached
- Paper filter bag as accessory
- Stable
- Movable on attached wheels and castors
- Integrated socket with automatic start mechanism



### Special advantages

	1200 Watt All-purpose Vacuum cleaner ASR 2025	1200 Watt All-purpose Vacuum cleaner ASR 2050
Extra large wheels		•

### Comparative device characteristics

Air output (at fan)	61l/s	61l/s
Vacuum	248 hPa (mbar)	248 hPa (mbar)
Filter surface	8600 cm <sup>2</sup>	8600 cm <sup>2</sup>
Rated input power	1200 W	1200 W
Container volume	25 l	50 l
Suction hose		
- Diameter	35 mm	35 mm
- Length	2,5 m	3,5 m
Weight	11 kg	16 kg
Standard equipment	Suction hose (Ø 35 mm, 2,5 m long.), handle adapter, 2 suction pipes, crevice nozzle, universal nozzle, paper filter bag.	Suction hose (Ø 35 mm, 3,5 m long.), handle adapter, 2 suction pipes, crevice nozzle, universal nozzle, paper filter bag.

# Electrical tools

## Magnetic core drill



### KBM 32 Q

#### Magnetic core drill unit up to 32 mm

##### Price includes

1 storage box, 1 cooling lubricant pump, 1 lashing strap, 1 swarf hook, 1 key-type drill chuck, 1 QuickIN adaptor for M18 x 6 P 1,5, 2 centering pins

##### Technical data

Weight	10 kg
Output	450 W
Input	700 W
Speed, full load	440 tr/min
Core drill	12-32 mm
Magnetic holding power	9000 N
Cable with plug	4 m
Total stroke range	260 mm
Drilling depth max.	50 mm
Height (drill jigs)	373 mm
Threaded drill	M 12
Stroke	135 mm
Magnetic foot dimensions	160 x 80 mm
Twist drill (with drill chuck)	13 mm
Chuck	QuickIN
Capacity in steel max. Ø {L x H}	

##### Accessories

- QuickIN Core drill
- Core drill with FEIN thread
- Core drill with Weldon adaptor
- Adapter
- General accessories
- Gesamtliste

##### At a glance

- QuickIN rapid change system for fast, keyless tool changes.
- Very easy to handle due to its compact construction and light weight.
- Robust and accurate dual dove-tail guide
- Infinitely variable stroke range setting for fast and safe tool changes, without need to remove core drill unit from the tool.
- Electronic overload cut-out if the drilling pressure is too high for protection of motor and tool.
- MagnetMonitorSystem guarantees long service life of the magnetic coils.
- Integral cooling lubricant for clean cutting and long tool life.



### KBM 50 QX

#### Magnetic core drill unit up to 50 mm

##### Price includes

1 storage box, 1 cooling lubricant pump, 1 lashing strap, 1 swarf hook, 1 3-jaw chuck up to Ø 13 mm, 1 QuickIN adaptor for M18 x 6 P 1,5, 2 centering pins

##### Technical data

Weight	12 kg
Output	680 W
Input	1200 W
Speed, full load	260/520 tr/min
Core drill	12-50 mm
Magnetic holding power	11000 N
Cable with plug	4 m
Total stroke range	310 mm
Drilling depth max.	50 mm
Height (drill jigs)	368 mm
Threaded drill	M 16
Stroke	135 mm
Magnetic foot dimensions	180 x 90 mm
Twist drill (with drill chuck)	20 (13) mm
Chuck	QuickIN
Capacity in steel max. Ø {L x H}	

##### Accessories

- QuickIN Core drill
- Core drill with FEIN thread
- Core drill with Weldon adaptor
- Adapter
- General accessories
- Gesamtliste

##### At a glance

- QuickIN rapid change system for fast, keyless tool changes..
- Very easy to handle due to its compact construction and light weight.
- Robust and accurate dual dove-tail guide.
- Infinitely variable stroke range setting for fast and safe tool changes, without need to remove core drill unit from the tool.
- MagnetMonitorSystem guarantees long service life of the magnetic coils.
- Electronic overload cut-out if the drilling pressure is too high for protection of motor and tool.
- Integral cooling lubricant for clean cutting.



### KBM 65 QF

#### Magnetic core drill unit up to 65 mm

##### Price includes

1 storage box, 1 cooling lubricant pump, 1 lashing strap, 1 swarf hook, 1 drift key, 1 3-jaw chuck up to Ø 13 mm, 1 QuickIN adaptor for M18 x 6 P 1.5, 2 centering pins, 1 swarf guard.

##### Technical data

Weight	21 kg
Output	650 W
Input	1460 W
Core drill	12-65 mm
Magnetic holding power	12000 N
Twist drill max. Ø	23 mm
Cable with plug	4 m
Total stroke range	408 mm
Drilling depth max.	50 mm
Height (drill jigs)	536 mm
Threaded drill	M 20
Adjustment range lengthways/sideways	12/74 mm
Stroke	178 mm
Reamer Ø	23 mm
Switch step SLOW	125/255 tr/min
Switch step FAST	250/510 tr/min
Magnetic foot dimensions	184 x 92 mm
Chuck	QuickIN/CM3
In-load speeds 1st speed / 2nd speed	
Capacity in steel max. Ø	

##### Accessories

- QuickIN Core drill
- Core drill with FEIN thread
- Core drill with Weldon adaptor
- Adapter
- General accessories
- Gesamtliste

##### At a glance

- QuickIN rapid change system for fast, keyless tool changes.
- MK3 grip as universal holding fixture, for full drilling also.
- Integral cooling lubricant for clean cutting and long life.
- Two-speed gears to select the correct cutting speed
- Also suitable for lap bores.
- Robust and accurate dual dove-tail guide with extra large stroke range.
- MagnetMonitorSystem guarantees long service life of the magnetic coils.
- Electronic overload cut-out if the drilling pressure is too high for protection of motor and tool.
- Optimum handling due to ergonomic design.
- Fine adjustment for accurate alignment when magnetic foot is switched on.

# Electrical tools

## Tapper and drive impact wrench

### ASge 636

**Tapper up to M 8**

**Price includes**

Clamping chuck not included in price.



#### Technical data

Weight	1,6 kg
Output	150 W
Input	280 W
Thread in steel up to	M 8
Cable with plug	2,5 m
Cable of tap, running back	0-580 tr/min
Cone at drill shaft	B 12
Speed of tap, cutting	0-450 tr/min
{L x H}	

#### Accessories

- General accessories
- Gesamtliste

#### At a glance

- Lightweight easy-to-use tapper.
- High motor power for reliable operation.
- Integrated reversing gear with rapide return action.
- Variable electronic speed control for sensitive drilling and screwdriving.
- FEIN kinetic handle for fatigue-free an safe working.
- Integral switch for ease of operation.

### ASge 648

**Tapper up to M 12**

**Price includes**

1 additional handle, clamping chuck not included in price.



#### Technical data

Weight	3,7 kg
Output	420 W
Input	650 W
Thread in steel up to	M 12
Cable with plug	2,5 m
Cable of tap, running back	0-550 tr/min
Cone at drill shaft	B 16
Speed of tap, cutting	0-240 tr/min
{L x H}	

#### Accessories

- General accessories
- Gesamtliste

#### At a glance

- High performance tapper with spade handle.
- High motor power for reliable operation.
- Integrated reversing gear with rapid return action.
- Electronic speed control for precise thread-cutting application and steady cutting speed.

### ASb 648

**Drive impact wrench up to M 22**

**Price includes**

1 rubber ring, 1 securing pin.



#### Technical data

Weight	5 kg
Output	240 W
Input	450 <sup>1</sup> W
Speed, no load	1500 tr/min
max. torque for hard screwdriving operation, approx.	400 Nm
Cable with plug	4 m
Impacts	1500 tr/min
Chuck	3/4"
Fastening	M 12 (1/2") - M 22

#### Accessories

- General accessories
- Gesamtliste

#### At a glance

- Impact wrench up to 400 Nm.
- FEIN impact system for recoil-free working
- Mid-mounted handle for optimized weight distribution
- Maximum torque in reverse rotation.
- <sup>1</sup> 2/8 min.

### ASb 658-1

**Drive impact wrench up to M 27**

**Price includes**

1 rubber ring, 1 securing pin.



#### Technical data

Weight	6,8 kg
Output	330 W
Input	550 <sup>1</sup> W
Speed, no load	1400 tr/min
max. torque for hard screwdriving operation, approx.	700 Nm
Cable with plug	4 m
Impacts	1600 tr/min
Chuck	1"
Fastening	M18 (3/4") - M27 (1")

#### Accessories

- General accessories
- Gesamtliste

#### At a glance

- Impact wrench up to 700 Nm.
- FEIN impact system for recoil-free working
- Short design with double handle and integrate switch for safe handling.
- Maximum torque in reverse rotation.
- <sup>1</sup> 2/8 min.

# Electrical tools

## Grinders

### WSS 12-125

Angle grinders ø 125 mm

Price includes

1 wheel guard, 1 clamp for flexible grinding / cutting discs,  
1 additional handle



#### Technical data

Weight	1,9 kg
Output	750 W
Input	1200 W
Speed, no load	10000 tr/min
Grinding wheel Ø	125 mm
Cable with plug	4 m
Mounting hole Ø	22,23 mm
Elast. Backing pad Ø	125 mm

#### Accessories

- General accessories
- Gesamtliste

#### At a glance

- Compact angle grinder in the 125 mm class with excellent performance.
- HIGH-POWER-MOTOR with enormous torque for high grinding capacity.
- For all grinding, sanding, cutting and brushing applications.
- FEIN rapid attachment system QuickIN for fast, simple and reliable disc changes with no tools required.
- Self-start lock prevents uncontrolled reactivation following power supply interruption.
- Gentle start for recoil-free and safe starting.
- Easily adjustable and unremovable wheel guard.

### WSB 25-230 X

Angle grinders ø 230 mm

Price includes

1 wheel guard, 1 clamp for flexible grinding / cutting discs,  
1 additional handle



#### Technical data

Weight	5,4 kg
Output	1700 W
Input	2500 W
Speed, no load	6600 tr/min
Grinding wheel Ø	230 mm
Cable with plug	4 m
Mounting hole Ø	22,23 mm
Elast. Backing pad Ø	230 mm

#### Accessories

- General accessories
- Gesamtliste

#### At a glance

- Angle grinder with EBS, setting new standards for safety in the premium class.
- Electric EBS braking system stops the disc in less than 3 seconds.
- The braking system is wear-free and maintenance free.
- HIGH-POWER-MOTOR with enormous torque for high grinding capacity.
- FEIN rapid attachment system QuickIN for fast, simple and reliable disc changes with no tools required.
- Self-start lock prevents uncontrolled reactivation following power supply interruption.
- Gentle start for recoil-free and safe starting
- For all grinding, sanding, cutting and brushing applications.
- Quietest angle grinder in this class.
- Rear handle can be rotated through 4 positions
- Coolant air management offers optimum protection against dust.

### Msh 636-1

Die grinders 33 500/min

Price includes

1 collet Ø 6 mm, 1 set of keys



#### Technical data

Weight	1,5 kg
Output	150 W
Input	280 W
Speed, no load	33 500 tr/min
Cable with plug	4 m
Grinding wheel for max. Ø	20 <sup>1</sup> mm
{L x H}	

#### Accessories

- General accessories

#### At a glance

- Universal die grinder for applications in difficult to reach areas.
- Narrow neck for interior applications.
- Safe machine control.
- Spindle with multiple bearings for quiet operation.
- <sup>1</sup>The nominal speed of the grinding disc has to be at least the same as the maximum speed given on the power tool. Permitted width depending on DIN EN 12413, case observe specifications on the grinding dis.

### MSh 648-1

Straight grinders 23000/min

Price includes

1 collet Ø 8 mm, 1 set of keys



#### Technical data

Weight	3,1 kg
Output	420 W
Input	650 W
Speed, no load	8500-26 500 tr/min
Cable with plug	4 m
Grinding wheel for max. Ø	50 <sup>1</sup> mm
{L x H}	

#### Accessories

- General accessories
- Gesamtliste

#### At a glance

- High-performance die grinder.
- Suitable for grinding discs and carbide burrs
- Spindle with multiple bearings for quiet operation
- High performance motor with impressive power.
- <sup>1</sup>The nominal speed of the grinding disc has to be at least the same as the maximum speed given on the power tool. Permitted width depending on DIN EN 12413, case observe specifications on the grinding dis.

# Electrical tools

## Sheet metal

### BLS 1.6 X Sheet shear, up to 1,6 mm



#### Price includes

1 pair of blades,  
1 set of wrenches, 1 hand guard

#### Technical data

Weight	1,6 kg
Output	210 W
Input	350 W
Steel up to 400 N/mm <sup>2</sup>	1,6 mm
Strokes	4000 tr/min
Cutting speed	5-8 m/mn
Cable with plug	5 m
Rad. of smallest curve	15 mm
Steel up to 800 N/mm <sup>2</sup>	1,0 mm
Non-ferrous metals up to 250 N/mm <sup>2</sup>	2,0 mm
Steel up to 600 N/mm <sup>2</sup>	1,2 mm
Max. cutting capacity	{L x H}

#### At a glance

- Easy-to-use and curve-compatible sheet metal shear.
- Four-fold reversing blade : cleaner and buur-free cutting with low operating costs.
- Excellent ergonomics and unrestricted view of the cutting line.
- Goog curve precision with low sheet-metal distortion.
- Comfortable and fast when trimming and cutting to shape.
- For sheet metals up to 800 N/mm<sup>2</sup> and stainless steel.
- HIGH-POWER-MOTOR for unmatched performance and durability.

### BLS 2.5 Sheet metal, shear up to 2,5 mm



#### Price includes

1 pair of blades,  
1 set of wrenches, 1 hand guard

#### Technical data

Weight	2
Output	2
Input	3
Steel up to 400 N/mm <sup>2</sup>	2
Strokes	1
Cutting speed	3
Cable with plug	5
Rad. of smallest curve	2
Steel up to 800 N/mm <sup>2</sup>	1
Non-ferrous metals up to 250 N/mm <sup>2</sup>	3
Steel up to 600 N/mm <sup>2</sup>	2
Max. cutting capacity	{L x H}

#### At a glance

- Easy-to-use and curve-compatible sheet metal shear.
- Four-fold reversing blade : cleaner and buur free cutting with low operating costs.
- Excellent ergonomics and unrestricted view of the cutting line.
- Good curve precision with low sheet-metal distortion.
- Comfortable and fast when trimming and cutting to shape.
- For sheet metals up to 800 N/mm<sup>2</sup> and stainless steel.
- HIGH-POWER-MOTOR for unmatched performance and durability.

### BLS 3.5 Sheet metal, shear up to 3,5 mm Price includes



1 pair of blades, 1 hand guard,  
1 additional handle, 1 set of wrenches.

#### Technical data

Weight	5,4 kg
Output	750 W
Input	1200 W
Steel up to 400 N/mm <sup>2</sup>	3,5 mm
Strokes	1500 tr/min
Cutting speed	4-5 m/mn
Cable with plug	5 m
Rad. of smallest curve	30 mm
Steel up to 800 N/mm <sup>2</sup>	2 mm
Non-ferrous metals up to 250 N/mm <sup>2</sup>	4 mm
Steel up to 600 N/mm <sup>2</sup>	3 mm
Max. cutting capacity	{L x H}

#### At a glance

- Powerful sheet metal shear.
- Patented swarf suppresser for optimum and safe swarf removal.
- Tool-free height adjustment of the plunger blade for adapting to various material thicknesses.
- Excellent ergonomics and unrestricted view of the cutting line.
- Two-fold reversing blade : low tool costs and simple blade changing.
- HIGH-POWER-MOTOR for unmatched performance and durability.

### BLS 4.2 Sheet metal, shear up to 4,2 mm Price includes



1 pair of blades, 1 hand guard,  
1 additional handle, 1 gage, 3 wrenches.

#### Technical data

Weight	5,2 kg
Output	750 W
Input	1200 W
Steel up to 400 N/mm <sup>2</sup>	4,2 mm
Strokes	750 tr/min
Cutting speed	4-5 m/mn
Cable with plug	5 m
Rad. of smallest curve	25 mm
Steel up to 800 N/mm <sup>2</sup>	2,0 mm
Non-ferrous metals up to 250 N/mm <sup>2</sup>	5,0 mm
Steel up to 600 N/mm <sup>2</sup>	3,0 mm
Max. cutting capacity	{L x H}

#### At a glance

- Powerful sheet metal shear.
- Patented swarf suppresser for optimum and safe swarf removal.
- Excellent ergonomics and unrestricted view of the cutting line.
- Two-fold reversing blade : low tool costs and simple blade changing.
- HIGH-POWER-MOTOR for unmatched performance and durability.



# Electrical tools

## Nibbler

### BLK 1.6

**Nibbler up to 1,6 mm**

**Price includes**

1 die holder for sheet metal and corrugated sheet metal.



#### Technical data

Weight	1,8 kg
Output	210 W
Input	350 W
Steel up to 400 N/mm <sup>2</sup>	1,6 mm
Strokes	1500 tr/min
Cutting speed	1,9 m/mn
Cable with plug	5 m
Cutting width	5 mm
Immersion Ø with die	22 mm
Rad. of smallest curve (inside/outside)	30/35 mm
Steel up to 800 N/mm <sup>2</sup>	0,7 mm
Non-ferrous metals up to 250 N/mm <sup>2</sup>	2,5 mm
Steel up to 600 N/mm <sup>2</sup>	1,0 mm
Max. cutting capacity	{L x H}

#### At a glance

- Flexible nibbler for thin sheet metals, trapezoidal sheet metals, corrugated sheet metals and profiles.
- QuickIN for a fast change of punch and die.
- Very low operating costs by die and punch with long service life.
- Cutting direction adjustable by 360 degree steps without tools.
- Optimal ergonomics.
- HIGH-POWER-MOTOR for unmatched performance and durability.
- Profile set for all deep-channel sheet metals.

### BLK 2.0

**Nibbler up to 2 mm**



#### Technical data

Weight	1,8 kg
Output	210 W
Input	350 W
Steel up to 400 N/mm <sup>2</sup>	2 mm
Strokes	1000 tr/min
Cutting speed	1 m/mn
Cable with plug	5 m
Cutting width	8 mm
Immersion Ø with die	18 mm
Rad. of smallest curve (inside/outside)	4/0 mm
Plastics dep. on quality	2,5 mm
Steel up to 800 N/mm <sup>2</sup>	1,0 mm
Non-ferrous metals up to 250 N/mm <sup>2</sup>	2,5 mm
Steel up to 600 N/mm <sup>2</sup>	1,5 mm
Max. cutting capacity	{L x H}

#### At a glance

- Compact round-die nibbler, also suited for scrole and corner cutting.
- Bites rapidly and powerfully through all sheet metals 2 mm thick.
- Ideal for cut-outs : machine can turn on the spot.
- Especially well suited for cutting edged sheet metals (minimum bend radius 3 mm)
- Optimally suited for template cuts • Optimal ergonomics.
- QuickIN for a fast change of punch and die.
- HIGH-POWER-MOTOR for unmatched performance and durability.

### BLK 3.5

**Nibbler up to 3,5 mm**

**Price includes**

1 additional handle



#### Technical data

Weight	3,6 kg
Output	750 W
Input	1200 W
Steel up to 400 N/mm <sup>2</sup>	3,5 mm
Strokes	750 tr/min
Cutting speed	1,3 m/mn
Cable with plug	5 m
Cutting width	14 mm
Immersion Ø with die	30 mm
Rad. of smallest curve (inside/outside)	7/0 mm
Steel up to 800 N/mm <sup>2</sup>	1,8 mm
Non-ferrous metals up to 250 N/mm <sup>2</sup>	3,5 mm
Steel up to 600 N/mm <sup>2</sup>	2,3 mm
Max. cutting capacity	{L x H}

#### At a glance

- Round die nibbler for unlimited curve configuration (360°)
- Long tool life, punches can be reground.
- Ideal for cut-outs : machine can turn on the spot.
- Cutting direction adjustable in three 90 degree steps without tools.
- Warp-free cutting of flat and bent sheet metal.
- Optimally suited for template cuts.
- QuickIN for a fast change of punch and die.
- HIGH-POWER-MOTOR for unmatched performance and durability.

### BLK 5.0

**Nibbler up to 5 mm**

**Price includes**

1 additional handle



#### Technical data

Weight	3,8 kg
Output	750 W
Input	1200 W
Steel up to 400 N/mm <sup>2</sup>	5 mm
Strokes	750 tr/min
Cutting speed	1,3 m/mn
Cable with plug	5 m
Cutting width	8 mm
Immersion Ø with die	43 mm
Rad. of smallest curve (inside/outside)	86/94 mm
Steel up to 800 N/mm <sup>2</sup>	2,5 mm
Plastics	5 mm
Non-ferrous metals up to 250 N/mm <sup>2</sup>	7 mm
Steel up to 600 N/mm <sup>2</sup>	3,3 mm
Max. cutting capacity	{L x H}

#### At a glance

- Powerful nibbler for heavy cutting applications.
- Cuts across 90-degree edges possible, for example for dismantling tanks and guard rails.
- Cutting direction adjustable in three 90-degree steps without tools.
- HIGH-POWER-MOTOR for unmatched performance and durability.
- Die and punch with long service life.



# Electrical tools

## FEIN SuperCut



### FEIN SuperCut Automotive FSC 1.6

High-performance system for  
automotive repairs

Order no.: 7 236 31 50

Bauart : FSC 1.6

#### Price includes

1 metal tool case, 1 sharpening stone (6 37 19 010 01 4), 1 mounting bolt (3 30 01 039 01 7), 1 key

#### Technical data

Weight	1,3 kg
Output	220 W
Input	400 W
Oscillations	11000-18500 tr/min
Cable with plug	5 m
{L x H}	

#### Accessories

- FEIN cutter blades for automobile glazing
- FEIN cargo cutter blades and accessories
- FEIN accessories for removing residual banding beads
- FEIN accessories for the automobile workshop.
- Accessory sets for automobile glaziers, cargo and automobile workshops.
- Gesamtliste

#### At a glance

- FEIN SuperCut Automotive for universal deployment in the automobile sector.
- Optimally tailored sets for automobile glaziers, car workshops, and for the cargo sector.
- Fast, reliable, and easy-to-use system.
- High-performance 400 watt motor for high cutting speeds.
- Infinitely variable electronic cutting frequency control.



### FEIN SuperCut Construction FSC 2.0

High-performance system for interior  
work and renovation

Order no.: 7 236 32 50

Bauart : FSC 2.0

#### Price includes

1 FEIN SuperCut Construction in a plastic tool case, 1 sharpening stone (6 37 19 010 01 4), 1 mounting bolt (3 30 01 039 01 7), 1 Wrench (6 29 07 037 00 3)

#### Technical data

Weight	1,25 kg
Output	220 W
Input	400 W
Oscillations	11000-18500 tr/min
Cable with plug	5 m
{L x H}	

#### At a glance

- FEIN SuperCut Construction with oscillating movement for universal deployment.
- Optimally compiled sets available for glaz/window installers, carpenters/interior fitters, tilers/plumbers and sealant repairers.
- Fast, reliable, and easy-to-use system.
- Durable 400 Watt HIGH-POWER MOTOR for outstanding performance and stability.
- Infinitely variable electronic cutting frequency control.
- Hexagon tool clamp with positive link between machine and tool.



### FEIN SuperCut Construction FSC 2.0

High-performance system for interior  
work and renovation.

#### Price includes

1 FEIN SuperCut Construction in a plastic tool case, 4 E-Cut standard saw blades (form 123, 124, 135, 136), 4 E-Cut precision saw blades (form 119, 120, 121, 122), 1 each E-Cut universal saw blade (form 147, 148), 1 depth stop, 1 Adapter, 1 sanding pad, 5 Sanding sheets each grit size (K 80, 120, 180), 1 key

#### Technical data

Weight	1,25 kg
Output	220 W
Input	400 W
Oscillations	11000-18500 tr/min
Cable with plug	5 m
{L x H}	

#### At a glance

- The set for carpenters / interior fitters with the complete E-Cut selection.
- For all construction and sawing work, even in hard to reach places.
- Brings speed to every construction site.
- Sawing without previous disassembly. No free space required alongside or behind the work piece.
- High cutting speed and high precision.
- Plunge into the material just like a mortise chisel.
- Clean cuts even by hand, no clamping of the workpiece necessary.
- Convert to a versatile triangular sander with high sanding capacity.

# Electrical tools

## FEIN SuperCut



### FEIN SuperCut Construction FSC 2.0

High-performance system for interior work and renovation.

Order no.: 7 236 32 53

Bauart : FSC 2.0

#### Price includes

1 FEIN SuperCut Construction in a plastic tool case, 1 Segment blade, diamond-coated, (form 162), 1 Cutter blade, mushroom shaped, 1 Stopper knife, 1 each E-Cut universal saw blade (form 147, 148), 1 Adapter, 2 Rasps, carbide-coated, triangular, perforated for dust extractor, 1 key

#### Technical data

Weight	1,25 kg
Output	220 W
Input	400 W
Oscillations	11000-18500 tr/min
Cable with plug	5 m
{L x H}	

#### At a glance

- Indispensable for all tilers, stove fitters, and plumbers the professional set with the universal accessories.
- Replacement of single, damaged tiles without damaging adjoining tiles.
- Simple and precisely working system - into the corners and along radii.
- Little dirt and dust.
- Cut-outs and fitting work is accomplished quickly and neatly using the E-Cut saw blades. You don't have complicated touch-up work.
- Convert to a versatile triangular sander with high sanding capacity.

### FEIN SuperCut Construction FSC 2.0

High-performance system for interior work and renovation.

#### Price includes

1 FEIN SuperCut Construction in a plastic tool case, 1 Vibration-attenuating bail handle, 1 Extractor hood, 5 Cutter blades, straight (form 117), 1 Cutter blade, straight, long (form 116), 2 Cleaning knives diamond-coated, straight (form 161), 1 key

#### Technical data

Weight	1,25 kg
Output	220 W
Input	400 W
Oscillations	11000-18500 tr/min
Cable with plug	5 m
{L x H}	

#### At a glance

- Renew sealant joints fast, cleanly, and reliably with the set for sealant renewers.
- Rapid work progresses with comparatively little effort.
- Optimal ergonomic design for fatigue-free working.
- HIGH-POWER-MOTOR for unmatched performance and durability.
- Use indoors and outdoors.
- Vibration-attenuating bail handle for minimising physical fatigue.
- Tool-free attachable dust extraction device.



### FEIN MultiMaster FMM 250 Q - Top

The universal system for interior work and renovation.

Order no.: 7 229 37 51

Bauart : FMM 250 Q

#### Price includes

1 FEIN MultiMaster FMM 250Q, 1 sanding pad, 5 sanding sheets each grit size 60, 80, 120, 180, 1 Universal E-Cut saw blade (29 mm), 1 HSS segment saw blade, 1 carbide segment saw blade, 1 fixed spatula, 1 profile grinding set, 1 dust extraction device, 1 sanding plate with holes, 5 sanding sheets perforated each grit each grit size 60, 80, 120, 180, 1 carbide rasp (triangular), perforated, 1 plastic carrying case.

#### Technical data

Input	400 W
Oscillations	11000-21000 tr/min
Cable with plug	5 m
Sanding plate above corner	80 mm
Chuck	QuickIN

#### Accessories

- Sawing
- Rasping
- Remove grouts
- Scraping
- Grinding
- Polishing
- Cutting
- Extraction
- General accessories
- Gesamtliste

#### At a glance

- FEIN MultiMaster Top with tool-free QuickIN rapid clamping system in a tool case, including a broad range of accessories for nearly limitless applications.
- In the lead through oscillation technology. Usurpassed versatility.
- Convenient accessories exchange without keys using the QuickIN rapid clamping system.
- Powerful 250 Watt motor with electronic speed control.
- Chuck with form-fitting mount provides high torque transfer.
- Integrated interface for adaptation of additional system accessories.
- Comprehensive accessories range available.

# Electrical tools

## Cordless machines



### DC756KA

#### 12 Volt 13 mm Cordless Drill Driver

- Powerful 12 Volt drill driver for drilling and screwdriving applications.
- Compact, lightweight design.
- 17 position adjustable torque control for consistent screwdriving into a variety of materials with different screw sizes.
- Two speed settings, variable speed and reverse switch for controllable use.
- Ergonomically designed trigger and rubber grip.
- 13 mm single sleeve keyless chuck with automatic spindle lock for quick and easy bit change with one hand.
- Electronic single sleeve keyless chuck with automatic spindle lock for quick and easy bit change with one hand.
- Electronic motor brake for added control.
- High performance fan cooled motor for maximum power and durability.
- All metal gearing for efficient power transmission and longer tool life.
- Modular design for easy access to key components and excellent serviceability.



**Standard Equipment :** 1 hour charger, 2 batteries, Heavy duty carrying case.

#### DC756KA / DC756KB

Chuck Capacity	1.5-13 mm
Battery	NiCd 2.0 Ah
Power Output	240 Watts
No Load Speed	0-400 / 0-1400 rpm
Max. Torque	35 Nm
Max. Drilling Capacity (Wood)	28 mm
Max. Drilling Capacity (Metal)	13 mm
Weight	2.0 kg
Length x Height	225 x 235 mm



### DC945KB

#### 12 Volt 13 mm Heavy Duty Hammerdrill/Driver

- Powerful 12 Volt combination tool for heavy duty hammerdrilling and screwdriving applications.
- Three speed settings for optimum performance in high torque, normal use and high speed applications.
- 22 position adjustable torque control for uniform results and optimised precision when screwdriving.
- Up to 48 Nm of sustained torque for maximum performance.
- 13 mm self-tightening chuck tightens throughout operation providing superior bit gripping strength.
- Ergonomically designed trigger and rubber grip.
- Electronic brake for added control.
- High performance DeWALT fan cooled motor with replaceable brushes for maximum power and durability.
- All metal gearing for efficient power transmission and longer tool life.
- Modular design for easy access to key components and serviceability.



**Standard Equipment :** 30 minute charger, 2 batteries, Multi position side handle, Heavy duty carrying case.

#### DC945KB

Chuck Capacity	1.5-13 mm
Battery	NiMH 2.6 Ah
Power Output	310 Watts
No Load Speed	0-450 / 0-1450 / 0-1800 rpm
Beats per minute	0-7650 / 0-24650 / 0-30600 spm
Max. Torque	48 Nm
Max. Drilling Capacity (Wood)	38 mm
Max. Drilling Capacity (Metal)	13 mm
Max. Drilling Capacity (Masonry)	13 mm
Weight	2.4 kg
Length x Height	270 x 245 mm

# Electrical tools

## Cordless machines



### DW053K2 12 Volt Compact Cordless Impact Wrench

- Durable fan cooled motor delivers up to 160 Nm of sustained torque and up to 3000 impacts per minute for hard joint screwdriving.
- All metal gearing for efficient power transmission and long tool life.
- Aluminium front housing for better weight and balance.
- Modular component design for easy access and fast service.
- Forward, reverse, variable speed and electronic motor brake for total control.
- 1/2" square drive allows for quick and easy bit changes.
- Rubber coated grip and rear of the tool to reduce surface vibration and user fatigue.



**Standard Equipment :** 1 hour charger, 2 batteries, Heavy duty carrying case.



### DW965K - 12 Volt Heavy Duty 10 mm Cordless Right Angle Drill

- Powerful fan cooled motor delivers up to 20 Nm of sustained torque for turning large bits and fasteners.
- 2 speed ranges 0-400/0-1200 rpm for increased user flexibility providing a wide range of applications.
- Durable, right angle transmission with sealed ball bearings and cut-steel gears for a longer tool life.
- Multi-grip trigger provides comfort and convenience by allowing the user to get into tighter spaces while still having access to the trigger.
- Forward, reverse, variable speed and electronic motor brake for total control.
- modular component design for trouble free servicing.



**Standard Equipment :** 1 hour charger, 1 battery, Heavy duty carrying case.

#### DW053K2/DW053K2H

Bit Holder	1/2"
Battery	NiCd 2.4 Ah
Power Output	200 Watts
No Load Speed	0-2400 rpm
Impacts per Minute	0-3000 imp/min
Max. Sustained Torque	160 Nm
Max. Bolt Diameter	M16
Weight	1.7 kg
Length x Height	166 x 231 mm

#### DW965K

Chuck Capacity	1.0-10 mm
Battery	NiCd 2.0 Ah
Power Output	190 Watts
No Load Speed	0-400 / 0-1200 rpm
Max. Torque	20 Nm
Max. Drilling Capacity (Wood)	25 mm
Max. Drilling Capacity (Metal)	10 mm
Weight	2.0 kg
Length x Height	323 x 125 mm

# Electrical tools

## Cordless machines



### DC759KA 18 Volt 13 mm Cordless Drill Driver

- Powerful 18 Volt drill driver for drilling and screwdriving applications.
- Compact, lightweight design.
- 17 position adjustable torque control for consistent screwdriving into a variety of materials with different screw sizes.
- Two speed settings, variable speed and reverse switch for controllable use.
- Ergonomically designed trigger and rubber grip.
- 13 mm single sleeve keyless chuck with automatic spindle lock for quick and easy bit change with one hand.
- Electronic motor brake for added control.
- High performance fan cooled motor for maximum power and durability.
- All metal gearing for efficient power transmission and longer tool life.
- Modular design for easy access to key components and excellent serviceability.



**Standard Equipment :** 1 hour charger, 2 batteries, Heavy duty carrying case.

#### DC759KA

Chuck Capacity	1.5-13 mm
Battery	NiCd 2.0 Ah
Power Output	350 Watts
No Load Speed	0-400 / 0-1400 rpm
Max. Torque	44 Nm
Max. Drilling Capacity (Wood)	38 mm
Max. Drilling Capacity (Metal)	13 mm
Weight	2.4 kg
Length x Height	218 x 229 mm



### DC925KB 18 Volt 13 mm Heavy Duty Hammerdrill/Driver

- Powerful 18 Volt combination tool for heavy duty hammerdrilling and screwdriving applications.
- Three speed settings for optimum performance in high torque, normal use and high speed applications.
- 22 position adjustable torque control for uniform results and optimised precision when screwdriving.
- Up to 56 Nm of sustained torque for maximum performance.
- 13 mm self-tightening chuck tightens throughout operation providing superior bit gripping strength.
- Ergonomically designed trigger and rubber grip.
- Electronic brake for added control.
- High performance fan cooled motor with replaceable brushes for maximum power and durability.
- All metal gearing for efficient power transmission and longer tool life.
- Modular design for easy access to key components and serviceability.



**Standard Equipment :** 30 minute charger, 2 batteries, Multi position side handle, Heavy duty carrying case.

#### DC925KB

Chuck Capacity	1.5-13 mm
Battery	NiMH 2.6 Ah
Power Output	450 Watts
No Load Speed	0-450 / 0-1500 / 0-2000 rpm
Beats per minute	0-450 / 0-1500 / 0-2000 rpm
Max. Torque	56 Nm
Max. Drilling Capacity (Wood)	50 mm
Max. Drilling Capacity (Metal)	13 mm
Max. Drilling Capacity (Masonry)	16 mm
Weight	2.8 kg
Length x Height	270 x 245 mm



# Electrical tools

## Cordless machines



### DC213KB - 18 Volt Heavy Duty 3 Mode Dedicated Cordless Hammer

- Ideal for drilling anchors and fixing holes into concrete, brick and masonry from 4 mm to 20 mm.
- Large 19 mm optimised hammer mechanism delivers corded drilling performance.
- Efficient and compact gearbox for longer runtime and lighter weight.
- Extremely compact design and rear mounted battery for excellent balance and optimum comfort.
- Internal mechanism connected to external housings via spring dampeners meaning significantly lower vibration, reduced user fatigue allowing longer operating periods..
- Rotation stop for light chiselling applications in plaster, tiles and render.
- Impact-stop mode for rotary drilling only in wood, ceramic, steel.
- Electronic motor brake for additional control.
- Modular component design for trouble free servicing.
- Rubber coated grip to reduce surface vibration and user fatigue.



**Standard Equipment** : 30 minute charger, 2 batteries, Multi-position side handle, Grease, Heavy duty carrying case.



### DC410KB\* 18 Volt Cordless Finishing Grinder

- Powerful fan cooled motor with replaceable brushes delivers maximum power and durability.
- 7,000 rpm provides high power for cutting and grinding applications.
- Keyless Guard for enhanced application versatility.
- Convenient trigger switch lock-off button for easier gripping.
- 3 Position side handle offers greater comfort and control.
- Spindel lock allows users to change their wheels quick and easy.
- Metal gear case dissipates heat for longer bearing, gear and motor life.



**Standard Equipment** : 1 hour charger, 2 batteries, Keyless protective guard, 3 position side handle, Heavy Duty carrying case.

\* Available with 2,6 NiMH battery as B-Version

DC213KB	
Battery	NiMH 2.6 Ah
Power Output	300 Watts
No Load Speed	1100 rpm
Impact Energy	2.1 J
Blows per Minute	0-4200 bpm
Tool Holder	SDS-Plus
Max. Drilling Capacity (Wood)	30 mm
Max. Drilling Capacity (Metal)	13 mm
Max. Drilling Capacity (Concrete)	20 mm
Weight	3.1 kg
Length x Height	295 x 192 mm

DC410KB	
Max. Disc Diameter	115 mm
Power Output	350 Watts
Battery	NiCd 2.4 Ah
No Load Speed	7000 tr / mn
Spindle Thread	M14
Weight	3.2 kg
Length x Height	375 x 147 mm

# Electrical tools

## Cordless machines



### DC234KL - 36 Volt Heavy Duty 3 Mode Quick Change Chuck Dedicated Cordless Hammer

- Ideal for drilling anchors and fixing holes into concrete, brick and masonry from 4 mm to 26 mm.
- New 36 Volt Lilon technology delivers significantly improved user flexibility through 70% more runtime compared with 24 Volt, over double battery life and 80% full charge within 30 minutes charging.
- Large 19 mm optimised hammer mechanism delivers corded drilling performance.
- Efficient and compact gearbox for longer runtime and lighter weight.
- Extremely compact design and rear mounted battery for excellent balance and optimum comfort.
- Internal mechanism connected to external housings via spring dampeners meaning significantly lower vibration, reduced user fatigue allowing longer operating periods.
- Impact-stop mode for rotary drilling only in wood, ceramic, steel.
- Rotation stop for light chiselling applications in plaster, tiles and render.
- Electronic motor brake for additional control.
- Quick Release SDS-Plus Toolholder and 3 Jaw Chuck supplied for easy switching between hammer / rotary hammer and rotary only applications.
- Spring loaded battery latch system and guiderail for quick change and secure battery fitment.
- Modular component design for trouble free servicing.
- Rubber coated grip to reduce surface vibration and user fatigue.



**Standard Equipment :** 1 hour charger, 2 batteries, Multi-position side handle, 13 mm diameter 3 jaw keyless quick change chuck, Grease, Heavy duty carrying case.

#### DC234 KL

Battery	Li-Ion 2.2 Ah
Power Output	450 Watts
No Load Speed	1150 rpm
Impact Energy	2.5 J
Blows per Minute	0-4300 bpm
Tool Holder	SDS-Plus
Max. Drilling Capacity (Wood)	30 mm
Max. Drilling Capacity (Metal)	13 mm
Max. Drilling Capacity (Concrete)	26 mm
Weight	3,8 kg
Length x Height	295 x 230 mm



### DC300KL 36 Volt Heavy Duty Cordless Circular Saw

- Powerful DeWALT fan cooled motor with replaceable brushes delivers up to 4000 rotations per minute for fast cutting action.
- 184 mm, 24 tooth carbide tipped blade allows for efficient run-time and fast, smooth cut finish at maximum 62 mm Depth of Cut.
- Extremely durable design offering a cast magnesium shoe and full metal guarding to withstand rough job site conditions.
- 0-50° bevel capacity with lever-action detents at 22.5° and 45° allows for aggressive bevel cuts while allowing users to locate common angles quickly.
- Keyless bevel angle and Depth of Cut adjustment with easy to read scale for maximum cordless versatility.
- Handle set at 15 degrees with diamond patterned grip area for better control and additional comfort.
- Spindle lock for quick and easy blade change.
- Lock off switch and electronic motor brake for additional control and work safety.
- All-metal keyless blade change system for quick and easy blade changes.
- 36 Volt high performance battery pack provides long run-time & battery life.



**Standard Equipment :** 1 hour charger, 2 batteries, 184 mm 24 tooth carbide blade, Rip fence, Heavy duty carrying case.

#### DC300KL

Blade Diameter	184 mm
Battery	Li-Ion 2,2 Ah
Power Output	940 Watts
No Load Speed	4000 rpm
Bevel Capacity	50°
Max. Depth of Cut at 90°	62 mm
Max. Depth of Cut at 45°	41 mm
Weight	4,49 kg
Length x Height	406 x 255 mm



# Electrical tools

## Cordless machines



### DC305KL

#### 36 Volt Heavy Duty Cordless Reciprocating Saw

- Powerful DeWALT fan cooled motor with replaceable brushes and variable speed delivers fast cutting action up to 3000 strokes per minute and 29 mm stroke length.
- High performance reciprocating mechanism and lightweight magnesium gearcase offer the user optimised power to weight ratio.
- Variable speed trigger, lock-off switch and electronic motor brake for quick controlled cuts and enhanced work safety.
- 4-position keyless blade clamp allows quick blade change, flush cutting, and versatility.
- Modular component design for trouble free servicing.
- Rubber coated grip to reduce surface vibration and user fatigue.
- 3-position adjustable shoe for adjusting Depth of Cut and extends blade life.



**Standard Equipment :** 1 hour charger, 2 batteries, Wood cutting blade, Heavy duty carrying case.

#### DC305KL

Battery	Li-Ion 2.2 Ah
Power Output	710 Watts
No Load Stroke Rate	0-3000 spm
Stroke Length	29 mm
Weight	3,81 kg
Length x Height	440 x 200 mm



### DC308KL / DC308KN\*

#### 36 Volt Heavy Duty Cordless Jigsaw

- Powerful DeWALT fan cooled motor with replaceable brushes and variable speed delivers fast cutting action up to 2,700 strokes per minute.
- Quick and easy patented keyless blade change system accepts t-shank blades.
- Tool free adjustable shoe with anti-scratch cover bevels 45 degrees in both directions.
- 3-position orbital action controls the aggressiveness or smoothness of cuts.
- Patented anti-vibration counter-balance mechanism and rubber grip provide smooth operation.
- Dust blower keeps line of cut clear of chips.
- Lock-off switch for added user safety.
- Modular component design for trouble free servicing.
- Rubber coated grip to reduce surface vibration and user fatigue.
- 36 Volt high performance battery pack provides long run-time & battery life.



**Standard Equipment :** 1 hour charger, 2 batteries, Anti-splinter shoe insert, Anti-scratch shoe cover, Dust extraction adapter, 4 blades, Heavy duty carrying case.

#### DC308KL / DC308KN\*

Battery	Li-Ion 2.2 Ah
Power Output	550 Watts
No Load Stroke Rate	0-2700 spm
Stroke Length	26 mm
Bevel Capacity	45°
Max. Depth of Cut (Wood)	130 mm
Max. Depth of Cut (Metal)	10 mm
Weight	3,4 kg
Length x Height	300 x 215 mm

\* Available as a bare unit, without batteries and charger as N-Version, DC308KN not available in the UK

# Electrical tools

## Cordless machines



### DC800KL / DC800KN\*

#### 36 Volt Heavy Duty High Torque Impact Wrench

- Powerful fan cooled motor delivers up to 440 Nm of sustained torque and up to 2500 impacts per minute for heavy duty fastening applications.
- All metal gearing for efficient power transmission and long tool life.
- Aluminium front housing for better weight and balance.
- Modular component design for easy access and fast service.
- Rocker switch for fast and easy forward and reverse selection.
- 1/2" (13 mm) square drive allows for quick and easy bit changes.
- Rubber coated grip to reduce surface vibration and user fatigue.



**Standard Equipment** : 1 hour charger, 2 batteries, Heavy duty carrying case.

\* Available as a bare unit, without batteries and charger as N-version, DC800KN not available in the UK

DC800KL / DC800KN*	
Bit Holder	1/2"
Battery	Li-Ion 2.2 Ah
Power Output	800 Watts
No Load Speed	1400 rpm
Impacts per Minute	2500 imp/min
Max. Sustained Torque	440 Nm
Max. Bolt Diameter	M20
Weight	3,4 kg
Length x Height	273 x 275 mm



### DC900KL / DC900KN\*

#### 36 Volt Heavy Duty Hammerdrill / Driver

- Powerful 36 Volt combination tool for heavy duty hammerdrilling and screwdriving applications.
- Three speed settings for optimum performance in high torque, normal use and high speed applications.
- 22 position adjustable torque control for uniform results and optimised precision when screwdriving.
- 13 mm self-tightening keyless chuck tightens throughout operation providing superior bit gripping strength.
- Ergonomically designed trigger and anti-slip comfort grip provides increased comfort and control.
- Electronic brake for added control.
- High performance fan cooled motor for maximum power and durability.
- All metal gearing for efficient power transmission and longer tool life.
- Enhanced durability and reliability to withstand the job-site environment and the most demanding applications.



**Standard Equipment** : 1 hour charger, 2 batteries, Multi position side handle, Heavy duty carrying case.

\* Available as a bare unit, without batteries and chargers as N-version, DC900KN not available in the UK

DC900KL / DC900KN*	
Chuck Capacity	1.5-13 mm
Battery	Li-Ion 2.2 Ah
Power Output	750 Watts
No Load Speed	0-400 / 0-1200 / 0-1600 rpm
Beats per Minute	0-400 / 0-1200 / 0-1600 rpm
Max. Torque	40 Nm
Max. Drilling Capacity (Wood)	50 mm
Max. Drilling Capacity (Metal)	13 mm
Max. Drilling Capacity (Masonry)	16 mm
Weight	3,1 kg
Length x Height	285 x 269 mm

# Electrical tools

## Cordless machines



### D25112K

#### 24 mm Heavy Duty SDS-Plus Rotary Hammer

- Ideal for drilling anchor and fixing holes into concrete and masonry from 4 to 24 mm in diameter.
- Electronic variable speed for total control in any application.
- Impact-stop for drilling in wood, steel, ceramic and screwdriving applications.
- Safety clutch eliminates sudden high-torque reaction should the bit jam.
- Ergonomic rubber coated back handle design for improved comfort in use.
- Rounded ergonomic industrial design allows easy and comfortable handling in any application.
- Large 22 mm hammer mechanism delivers high performance with low stress to the critical components.
- Improved sealing for maximum protection from dust ingress ensuring long tool life.
- Output air slots designed to protect users' eye.



**Standard Equipment :**  
multi-position side handle, depth stop.



### D25113K

#### 26 mm Heavy Duty SDS-Plus Combination Hammer

- Ideal for drilling anchor and fixing holes into concrete and masonry from 4 to 26 mm in diameter.
- Electronic variable speed for total control in any application.
- Rotation-stop for light chiselling applications in brick, soft masonry and occasionally concrete.
- Impact-stop for drilling in wood, steel, ceramic and screwdriving applications.
- Safety clutch eliminates sudden high-torque reaction should the bit jam.
- Ergonomic rubber coated back handle design for improved comfort in use.
- Rounded ergonomic industrial design allows easy and comfortable handling in any application.
- Large 22 mm hammer mechanism delivers high performance with low stress to the critical components.
- Improved sealing for maximum protection from dust ingress ensuring long tool life.
- Output air slots designed to protect users' eye.



**Standard Equipment :** Multi-position side handle, Depth stop, Heavy duty carrying case.

#### D25112K

Power Input	780 Watts
Power Output	365 Watts
No Load Speed	0-1150 rpm
Blows per Minute	0-4300 bpm
Impact Energy	0-3.1 J
Chuck	SDS-Plus
Max. Drilling Capacity (Wood)	30 mm
Max. Drilling Capacity (Metal)	13 mm
Max. Drilling Capacity (Concrete)	24 mm
Max. Drilling Capacity (Core bit)	65 mm
Weight	2,55 kg
Length x Height	352 x 200 mm

#### D25113K

Power Input	800 Watts
Power Output	395 Watts
No Load Speed	0-1150 rpm
Blows per Minute	0-4300 bpm
Impact Energy	0-3.4 J
Tool Holder	SDS-Plus
Max. Drilling Capacity (Wood)	30 mm
Max. Drilling Capacity (Metal)	13 mm
Max. Drilling Capacity (Concrete)	26 mm
Max. Drilling Capacity (Core bit)	65 mm
Weight	2,6 kg
Length x Height	352 x 200 mm

# Electrical tools

## Cordless machines



### D25114K - 26 mm Heavy Duty SDS-Plus Combination Hammer with Quick Change Chuck

- Ideal for drilling anchor and fixing holes into concrete and masonry from 4 to 26 mm in diameter.
- Electronic variable speed for total control in any application.
- Rotation-stop for light chiselling applications in brick, soft masonry and occasionally concrete.
- Impact-stop for drilling in wood, steel, ceramic and screwdriving applications.
- Safety clutch eliminates sudden high-torque reaction should the bit jam.
- Ergonomic rubber coated back handle design for improved comfort in use.
- Rounded ergonomic industrial design allows easy and comfortable handling in any application.
- Large 22 mm hammer mechanism delivers high performance with low stress to the critical components.
- Improved sealing for maximum protection from dust ingress ensuring long tool life.
- Output air slots designed to protect users' eye.



**Standard Equipment :** Multi-position side handle, Depth stop 'Quick Change' 13 mm 3 jaw keyless chuck, Heavy duty carrying case.

#### D25114K

Power Input	800 Watts
Power Output	395 Watts
No Load Speed	0-1150 rpm
Blows per Minute	0-4300 bpm
Impact Energy	0-3.4 J
Tool Holder	SDS-Plus
Max. Drilling Capacity (Wood)	30 mm
Max. Drilling Capacity (Metal)	13 mm
Max. Drilling Capacity (Concrete)	26 mm
Max. Drilling Capacity (Core bit)	65 mm
Weight	2,8 kg
Length x Height	368 x 200 mm



### D25314K - 26 mm L-Shape SDS-Plus Hammer with 3 Jaw Quick Change Chuck

- Ideal for drilling anchor and fixing holes into concrete and masonry from 4 to 26 mm in diameter.
- Electronic variable speed for total control in any application.
- Rotation-stop for light chiselling applications in brick, soft masonry and occasionally concrete.
- Impact-stop for drilling in wood, steel, ceramic and screwdriving applications.
- Quick Change Removable Chuck for precise drilling in wood and steel and screwdriving applications.
- Safety clutch eliminates sudden high-torque reaction should the bit jam.
- Ergonomic rubber coated back handle design for improved comfort in use.
- Long 5 m cable for improved flexibility and control.
- Connection for integrated Dust Extraction System.
- Rounded ergonomic industrial design allows easy and comfortable handling.
- Improved sealing for maximum protection from dust ingress ensuring long tool life.
- Large 22 mm hammer mechanism delivers high performance with low stress to the critical components.



**Standard Equipment :** Multi position side handle, Quick Adjustment depth stop, Quick Change 13 mm 3 Jaw Keyless Chuck for rotary drilling, Heavy duty carrying case.

#### D25314K

Power Input	800 Watts
Power Output	395 Watts
No Load Speed	0-1150 rpm
Blows per Minute	0-4300 bpm
Impact Energy	0-3.4 J
Tool Holder	SDS-Plus
Max. Drilling Capacity (Wood)	30 mm
Max. Drilling Capacity (Metal)	13 mm
Max. Drilling Capacity (Concrete)	26 mm
Max. Drilling Capacity (Core bit)	65 mm
Weight	3,1 kg
Length x Height	308 x 225 mm

# Electrical tools

## Cordless machines



### D25404K - 32 mm Heavy Duty SDS-Plus Combination Hammer

- Ideal for drilling large anchor, fixing and through holes in concrete and masonry from 6 to 32 mm in diameter.
- Rotation-stop for light chiselling applications, render and tile removal.
- Impact-stop for drilling in wood, ceramic, steel and screwdriving applications.
- Large hammer mechanism construction guarantees longer tool life and superior performance.
- Outstanding ergonomic D-handle design with rubber coated handle provides comfortable and secure grip in any application.
- Electronic variable speed switch for total control.
- Quick Change feature enables rapid change of the SDS-Plus toolholder reducing down time.
- Quick Change 3 jawed chuck provides speed, precision and flexibility when drilling in wood, ceramic and steel (available as accessory)
- High power 900W 73 mm motor ensuring excellent performance in all drilling applications.
- High technology transmission design cuts friction losses delivering smooth quiet operation.



**Standard Equipment :** Quick release removeable tool holder, Multi-position side handle, Heavy duty carrying case.



### D25600K 45 mm SDS-Max Combination Hammer

- Ideal for drilling anchor fixing and through holes in concrete and masonry from 12 to 45 mm in diameter. Core drilling up to 100 mm.
- Rotation-stop for medium-light demolition applications.
- Unique dust sealing protection to prevent even the finest dust ingress into the hammer mechanism delivering high durability and extended tool life.
- Hammer mechanism optimised to deliver maximum impact energy to beat frequency and efficiently drill into the hardest concrete.
- Efficient mechanism delivers impact blows directly to the bit without losses through excessive vibration and rebound dampening reduces stress to the tool.
- Ergonomic compact slimline design gives control and easy access to tight spaces.
- Soft rubber grip handle reduces vibration to the user lowering fatigue during extensive use.
- Electronic variable impact energy/speed for total control with smaller bits and light material.
- Electronic brush wear indicator identifies when brushes need replacing and product should be serviced.
- Unbeatable power to weight ratio : 10 J of impact energy delivered by a 6 kg hammer.
- Magnesium housing for lower weight and excellent durability.



**Standard Equipment :** Multi-position side handle with depth stop, Grease, Cloth, Heavy duty carrying case.

#### D25404K

Power Input	900 Watts
Power Output	550 Watts
No Load Speed	0-730 rpm
Blows per Minute	0-4100 bpm
Impact Energy	0-4.8 J
Tool Holder	SDS-Plus
Max. Drilling Capacity (Wood)	40 mm
Max. Drilling Capacity (Metal)	16 mm
Max. Drilling Capacity (Concrete)	6-32 mm
Max. Drilling Capacity (Core bit)	90 mm
Weight	4,8 kg
Length x Height	385 x 230 mm

#### D25600K

Power Input	1150 Watts
Power Output	690 Watts
Load speed	140-280 rpm
Blows per Minute	1330-2660 bpm
Impact Energy	1-10 J
Tool Holder	SDS-Max
Max. Drilling Capacity (Concrete)	45 mm
Max. Drilling Capacity (Breakthrough bit)	65 mm
Max. Drilling Capacity (Core bit)	100 mm
Weight	6,2 kg
Length x Height	460 x 243 mm



# Electrical tools

## Cordless machines



### D25900K 10 kg Demolition Hammer

- Large oversize hammer mechanism delivers extreme durability and excellent concrete breaking performance.
- Ergonomic inline design ensures user comfort during any application.
- Compact, streamlined design allows access in confined areas.
- Active vibration control offers safer more comfortable use and more productivity.
- Controllable impact energy provides the optimum setting to suit any application in any masonry materials.
- Quick change chisel adjustment allows fast orientation of the chisel through 12 preset positions.
- Nex 1500 W, 95 mm motor delivers outstanding motor efficiency and durability.
- Magnesium housings ensure maximum durability and minimum weight.
- Soft start feature ensures accurate clean breaking without chisel walking.
- Multi adjustable side handle can be located anywhere on the hammer barrel, maintaining user comfort in any application.



**Standard Equipment :** Multi-position side handle, Chisel, Grease, Cloth, heavy duty carrying case.

#### D25900K

Power Input	1500 Watts
Power Output	750 Watts
Hand/Arm Vibration	9.8 m/s <sup>2</sup>
Blows per Minute	1020-2040 bpm
Impact Energy	5-25 J
Tool Holder	SDS-Max
Weight	9,8 kg
Length x Height	650 x 250 mm



### D25980K\* 30 kg Pavement Breaker

- Large Oversize Mechanism delivers extreme durability and excellent breaking performance.
- 2000 W, 95 mm motor delivers outstanding efficiency and durability.
- Optimized motor and hammer mechanism deliver best performance on the market.
- Active Vibration Control offer safer, more comfortable use and more productivity.
- Suspended Handle System absorbs the rebound and, working with the AVC, delivers the lowest vibration on the market.
- Heavy Duty electronic module for constant power under load.
- Easy to service design to reduce repairing costs.



\* Available with pointed chisel and trolley as K-version

#### D25980K\*

Power Input	2000 Watts
Power Output	986 Watts
Hand/Arm Vibration	6.6 m/s <sup>2</sup>
Blows per Minute	870 bpm
Impact Energy	68 J
Tool Holder	28 mm Hex
Weight	31 kg
Length x Height	780 x 620 mm

# Electrical tools

## Cordless machines



**DW614\***  
**750 W - 1/4" (6-8 mm) Plunge Router**

- Lightweight and compact design increases ease of use as the cutter remains visible at all times for error free routing.
- Two column precision guide for plunging accuracy in a high quality aluminium housing with phosphor bronze bushing so that carefully controlled plunge cuts can be made.
- 3 stage depth stop adjustment enables recesses of various depths to be machined in one operation without time consuming setting up.
- Spindle lock mechanism for quick and easy cutter changes with a single spanner.



**Standard Equipment** : Parallel fence & 2 guide rods, 17 mm guide bush, Dust extraction adaptor, 8 mm & 17/13 mm spanners, 8 mm collet (1/4" GB)

\* DW614 not available in the UK

### DW614\*

Power Input	750 Watts
Power Output	500 Watts
No Load Speed	24000 rpm
Plunge Stroke/Movement	55 mm
Collet Size	6-8 mm
Max. Cutter Diameter	36 mm
Weight	2,9 kg
Length x Height	110 x 230 mm



**DW621 / DW621K\* - 1100 W - 1/4" (6-8 mm)**  
**Variable Speed Plunge Router**

- Precision micro-adjuster allows depth of cut adjustment accurate to 0.1 mm results.
- Unique through the column dust extraction for excellent cutter visibility - no adapter or hose which restrict visibility is required..
- Power switch mounted in the handle for ease of use features lock off and lock on actions.
- Full wave electronic speed control with feedback ensures the selected speed is maintained under any load for a consistent finish in all grades of timber, aluminium and plastics.
- Soft start to eliminate any small initial movement that might misalign the cutter.
- Two column precision guide with phosphor bronze bushing - the extra broad column provides superior rigidity for the greatest accuracy in this size of router.
- Rubber coated handles provide a comfortable grip and their low down position aid control of the router.
- 3 stage depth stop adjustment enables cuts of various depths to be made in one operation without time consuming setting up.
- Spindle lock mechanism for quick and easy cutter changes with a single spanner.



**Standard Equipment** : Parallel fence with built-in micro adjustment, Dust extraction adaptor and cap, 8 mm collet (1/4" GB), 17/10 mm spanner, 24 mm guide bush

\* Available with heavy duty carrying case as K-version, DW621 not available in the UK.

### DW621 / DW621K\*

Power Input	1100 Watts
Power Output	620 Watts
No Load Speed	8000 - 24000 rpm
Plunge Stroke/Movement	55 mm
Collet Size	6-8 mm
Max. Cutter Diameter	36 mm
Weight	3,1 kg
Length x Height	165 x 325 mm



# Electrical tools

## Cordless machines



**DW626 - 2300 W - 1/2" (12 mm)  
Variable Speed Plunge Router**

- Powerful 2300 Watt motor with massive overload reserves to deal with the most demanding of applications in freehand, template or inverted table operations.
- Electronic speed control ensures that the same fine finish is achieved in all grades of timber, aluminium and plastics since the full wave electronic control ensures the selected speed is maintained under any load.
- Seven stage variable speed selector allows a clean finish to be made across a wide range of materials and cutter sizes.
- Soft start eliminates any small initial movement that might misalign the cutter, especially important with such a powerful router.
- Long life sealed bearings prevent dust ingress prolonging the router's productive life.
- Routing depth setting with built-in fine adjuster for simple setting.
- Two column precision guide with large phosphor bronze bushes for plunging accuracy in a high quality die cast aluminium housing so that carefully controlled plunge cuts can be made.
- Adjustable large & comfortable handles with the on/off switch and plunge lock at your finger tips for excellent control.
- 5 stage depth stop adjustment enables recesses of various depths to be machined in one operation without time consuming setting up.
- Spindle lock mechanism for quick and easy cutter changes with a single spanner.
- Dust extraction through the extraction shroud for virtually dust free routing.



**Standard Equipment :** Parallel fence with fine adjustment, Dust extraction adapter (factory fitted), 30 mm guide bush, 8 mm & 12 mm collet (1/2" GB), 22 mm spanner, Heavy duty carrying case.

### DW626

Power Input	2300 Watts
Power Output	1560 Watts
No Load Speed	8000-21000 rpm
Plunge Stroke/movement	70 mm
Collet Size	8-12 mm
Max. Cutter Diameter	50 mm
Weight	7,0 kg
Length x Height	290 x 320 mm



**D26501K  
4 mm Electronic Planer**

- A powerful planer that copes effortlessly with hard woods, even at maximum depth of cut, giving a smooth, consistent finish.
- Electronic brake stops the blades in 2 seconds for safety.
- Rubber coated front handle eliminates slipping for greater comfort and control.
- Left and right chip ejection for convenience.
- Front handle depth control in clearly marked 0.1 mm steps for accurate setting with positive indexing.
- A large planer blade drum rotating at high speed provides an excellent finish.
- 3 chamfering grooves in the front shoe simplify precision fitting jobs.



**Standard Equipment :** Tungsten carbide tipped reversible blades, Parallel fence, Rebate depth guide, Dust extraction spout, Chip deflector and high capacity collapsible collection container, Chip ejector, Heavy duty carrying case.

### D26501K

Power Input	1150 Watts
Power Output	680 Watts
No Load Speed	11500 rpm
Maximum Depth of Cut	4 mm
Rebating Depth	25 mm
Planer Width	82 mm
Shoe Length	320 mm
Drum Diameter	64 mm
Weight	4,0 kg
Length x Height	320 x 180 mm

# Electrical tools

## Cordless machines



### D23650K 65 mm Depth of Cut Precision Circular Saw

- General purpose ripping, cross-cutting bevelling circular saw for wood and other construction materials.
- High torque motor for durability and power for cutting job site joinery materials.
- Stable block construction for low vibration running and long service life.
- Scale for precise cutting depth setting to 65 mm
- Additional handle for safe two-handed work.
- Variable adjustment of the mitre angle to 55 degrees.
- Optimum balance for safe, fatigue-free operation.
- Protection hood for up to 95% sawdust extraction.
- Compatible with DEWALT guide-rail system Ref. DE6287 & DE6288 for converting into a convenient, on-site portable alternative to a stationary panel saw.



**Standard Equipment :** Precision 18 tooth saw blade, Rip Fence, Blade Spanner, Heavy duty carrying case.



### D23700 86 mm Depth of Cut Heavy Duty Saw

- High power motor delivers excellent power even at maximum depth of cut.
- Optimum balance for safe, fatigue-free operation.
- Additional handle for safe two-handed work.
- Steel shoe for added durability.
- Stable block construction for low vibration running and long service life.
- Protection hood for sawdust extraction.
- Spindle lock for ease of blade change.
- Variable adjustment of the mitre angle to 45° for added versatility.



**Standard Equipment :** 24 tooth Precision saw blade, Rip fence, Blade spanner.

#### D23650K

Power Input	1350 Watts
Power Output	800 Watts
No Load Speed	5000 rpm
Blade Diameter	190 mm
Blade Bore	30 mm
Bevel Capacity	55°
Max. Depth of Cut at 90°	65 mm
Max. Depth of Cut at 90° (with guide rails)	61 mm
Max. Depth of Cut at 45°	45 mm
Max. Depth of Cut at 45° (with guide rails)	41 mm
Weight	5,4 kg
Length x Height	355 x 245 mm

#### D23700

Power Input	1750 Watts
Power Output	960 Watts
No Load Speed	4700 rpm
Blade Diameter	235 mm
Blade bore	30 mm
Bevel Capacity	45°
Max. Depth of Cut at 90°	86 mm
Max. Depth of Cut at 45°	62 mm
Weight	8,2 kg
Length x Height	430 x 290 mm

# Electrical tools

## Cordless machines



### DW650E 1100 W - Heavy Duty Electronic Belt Sander

- Variable speed for heat sensitive sanding and superior finishing.
- Robust construction using aluminium and dust sealed bearings for extended life.
- 2 central handles arranged for good balance and control, especially when flush sanding.
- Low centre of gravity to aid stability in use, reduces gouging.
- High performance motor to minimise slow down in use.
- Steel sanding sheet with cork backing to ensure the sanding area remains flat.
- Efficient dust collection using integrated dustbag or external dust extractor for a better sanding performance and sheet life.
- The optional sanding frame and inversion stand turn this belt sander into a versatile sanding tool.



**Standard Equipment :** Sanding belt, Dust bag.



### DW392\* - 425 mm ALLIGATOR® Power Saw For Cutting Bricks

- Ideal for cutting aerated concrete (gasbeton) and drywall.
- Constant speed for optimal cutting capabilities.
- Powerful motor to meet all application needs.
- Two long life and durable saw blades running in opposite directions so the material will not move while cutting.
- Dust sealed gearcase and bearings for increased durability.
- Magnesium housing for lower weight and excellent durability.
- Lock off switch and blade brake for added safety.
- Quick and easy blade changing system for less downtime.
- Ergonomic design and rubberised handles for superior handling and less fatigue.



**Standard Equipment :** Hard metal set of blades (yellow) for breeze block, drywall, Saw blade protection guard, Hex key.

\* DW392 not available in the UK

DW650E	
Power Input	1100 Watts
Power Output	630 Watts
Belt Speed	250-380 m/min
Belt Size	100 x 560 mm
Sanding Size	100 x 110 mm
Weight	6,4 kg
Length x Height	340 x 210 mm

DW392	
Power Input	1350 Watts
Power Output	700 Watts
No Load Stroke Rate	3300 spm
Stroke Length	38 mm
Blade Length	425 cm
Blade Stop	3 sec
Weight	4,3 kg
Length x Height	490 x 210 mm

# Electrical tools

## Component Mitre Saw



### DW703

#### 250 mm Compound Mitre Saw

- Powerful universal motor delivers plenty of cutting power in high torque cutting applications.
- Ultra smooth head actuation for safe precise cuts at any angle or compound angle.
- Mitre scale features 11 positive stops for amazingly accurate mitre cuts.
- Compact and lightweight with lock-down motor head effortless transportation.
- Sliding fence for superior material support.
- Spindle lock for easy blade changes.
- Horizontal D-handle design for comfortable and fatigue-free operation.
- Precision mitre scale designed to provide trouble free adjustment for the life of the saw.
- Miters up to 50 degrees both sides, bevel function up to 48 degrees.
- Wide die cast aluminium base provides plenty of work-piece support, with base extension capabilities.

90°/90°	95 x 89 mm	162 x 41 mm
45°/90°	67 x 89 mm	114 x 41 mm
90°/45°	95 x 61 mm	162 x 25 mm
45°/45°	114 x 25 mm	—

**Standard Equipment** : 24 tooth precision SERIES 40® saw blade, Blade and guard spanner, Dust bag

### DW703

Power Input	1600 Watts
Blade Speed	5000 tr/mn
Blade Diameter	250 mm
Blade Bore	30 mm
Bevel Capacity	48 / -3°
Mitre Capacity (right/left)	50/50°
Max. Cutting Capacity at 45°/45°	114 x 25 mm
Max. Depth of Cut (Saws)	89 mm
Weight	13,8 kg
Depth x Length x Height	620 x 510 x 570 mm



### DW707

#### 216 mm Crosscut Mitre saw

- The latest higher specified version of the original DW700.
- Dust extraction has been specifically designed to meet the needs of the professional user in heavy use applications, protection from airborne dust particles minimises health risk over long periods.
- The base and fence have been machined to meet the accuracy requirements at the most demanding applications.
- The head lock function allows the head to be fixed, restricting the traverse function for trim applications and ease of transportation.
- Integrated positive mitre stops at 15°, 22.5°, 30°, 45°, quick release mitre mechanism up to 50°

90°/90°	270 x 60 mm
45°/90°	190 x 60 mm
90°/45°	270 x 48 mm
45°/45°	190 x 48 mm

**Standard Equipment** : 24 tooth SERIES 60® saw blade, Fence centre support, 2 bench mounting bolts, Blade spanner.

### DW707

Power Input	1200 Watts
Blade Speed	6700 tr/mn
Blade Diameter	216 mm
Blade Bore	30 mm
Bevel Capacity	48°
Mitre Capacity (right/left)	50/50°
Max. Cutting Capacity at 45°/45°	190 x 48 mm
Max. Depth of Cut (Saws)	60 mm
Weight	14,5 kg
Depth x Length x Height	550 x 490 x 590 mm

# Electrical tools

## Component Mitre Saw



**D27111**



**DE1000**

### DE1000

#### Universal Legstand

- Supports all DeWALT and competitive mitre saws, as well as bench/portable thicknessers.
- Lightweight design for ease of transportation on and off site.
- Replaceable wood table top support for tool mounting.

Cat. No.	Description
DE1000	Universal legstand 640 mm x 705 mm

### D27111

#### 305 mm Slide Table Top Mitre Saw

- Combination saw with crosscut and ripping capabilities.
- Powerful 1500 Watt induction motor to meet the needs of the most demanding applications.
- Lightweight and easily transported.
- Innovative guard design maximises safety in use.
- Precision cast aluminium base and table top guarantees high precision cuts in both cutting modes.
- Slide mechanism incorporated to increase cross cut capacity.
- High and stable back fence increases accuracy in all mitre applications.
- Unique design gives excellent visibility in both rip and mitre modes.
- All-metal upper fence with positive cam lock for maximum accuracy.



**Standard Equipment** : SERIES 40® saw blade, Push Stick, Blade Wrench, Rip Fence, Table Saw Blade Guard, Allen Key.

### D27111

Power Input	1500 Watts
Power Output	1100 Watts
Blade Speed	3000 tr/mn
Blade Diameter	305 mm
Blade Bore	30 mm
Bevel Capacity	45°
Mitre Capacity (right/left)	50/60°
Max. Cutting Capacity at 45°/45°	155 x 50 mm
Max. Cutting Capacity (Sawbench position 90°/90°)	51 mm
Weight	26,5 kg
Max. Cutting Capacity at 90°/90°	220 x 90 mm
Max. Depth of Cut (Saws)	51 mm
Max. Crosscut Capacity	220 mm
Max. Ripping Capacity (right)	200 mm
Max. Ripping Capacity (left)	220 mm



# Electrical tools

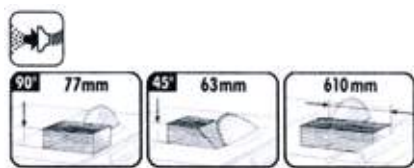
## Table Saw and Radial Arm Saw



### DW745

#### Heavy Duty Lightweight Table Saw

- 22 kg unit weight and optimized footprint make this the most portable saw in its class.
- Steel roll cage protects saw against jobsite drops and impacts.
- Rack and pinion fence system, front and rear fence lock and large, clear scales combine to give an extremely accurate and easy to use saw.
- Powerful 2000 Watt motor for high performance in all applications.
- Fence system provides 410 mm of rip capacity in a portable design for cutting large sheet materials to size.
- Cast table top design ensures accuracy and precision.
- Overload protection system ensures powerful performance in hard, wet or frozen woods.
- Quick bevel with large scale for easy, accurate adjustments.



**Standard Equipment :** 24 tooth SERIES 30® saw blade, Mitre fence, 2 blade spanners, Parallel fence, Dust port reducer, Push stick.

#### DW745

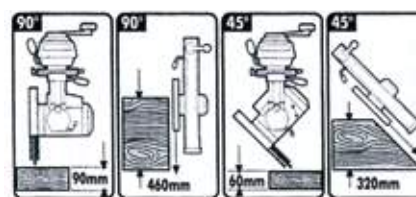
Power Input	2000 Watts
Power Output	1300 Watts
Blade Speed	3800 tr/mn
Blade Diameter	250 mm
Blade Bore	30 mm
Bevel Capacity	45°
Max. Ripping Capacity (right)	410 mm
Max. Ripping Capacity (left)	315 mm
Max. Depth of Cut at 90°	77 mm
Max. Depth of Cut at 45°	57 mm
Table Size	700 x 577 mm
Weight	22 kg
Depth x Length x Height	577 x 742 x 425 mm



### DW725K\*

#### 300 mm Radial Arm Saw

- A free standing radial arm saw with 460 mm of crosscut capacity and 720 mm of rip capacity, this unit is also capable of 90 mm depth of cut.
- Pre-assembled and adjusted, delivered in a wooden crate for maximum transportation protection.
- Solid cast iron arm and four roller bearings in the motor head assembly ensure high accuracy and durability.
- Quiet maintenance free induction motor delivers high power even at the maximum capacity of the machine. Also available in three phase voltage for maximum power DW726K.
- Simple yet positive controls and adjustment scales enable the width, depth and angle of cut to be set with accuracy in seconds.



**Standard Equipment :** 32 tooth saw blade, Assembly tools, Automatic safety return, Blade brake, Legstand.

#### DW725K\*

Power Input	2000 Watts
Blade Speed	3000 tr/mn
Blade Diameter	300 mm
Blade Bore	30 mm
Max. Cutting Speed	36 m/sec
Max. Ripping Width	720 mm
Weight	92 kg
Depth x Length x Height	1100x1280x1470 mm

# Electrical tools

## Woodworkers Table Saw and Attachments



### DW746K

#### Woodworkers Table Saw

- Extremely accurate fence system ensures blade is parallel in all positions, micro adjustment can be achieved with gentle hand pressure.
- Powerful 2700 Watt induction motor delivers high torque in ripping and cross cutting applications where tip speed must be maintained to ensure high cut quality. DW746KT 3700 Watt three phase model also available.
- Solid cast iron table has been precisely machined to exacting tolerances to ensure the highest accuracy in high quality joinery and cabinet making applications.
- The large die cast trunion mounting mechanism for the blade has been designed to limit blade flex or wobble, while remaining square to the table.
- Multiple attachments are available to fully extend the capability of this workshop thoroughbred.



**Standard Equipment :** 30 tooth SERIES 40® saw blade, Right and left hand steel extension support tables, Outfeed support table, 730 mm Rip rail system, Sawblade guard, mitre fence, Push stick.

#### Attachments for DW746



**DE7462**



**DE7470**

Cat. No.	Item	Description
DE7461	1	Sliding Table
DE7460	2	Mobile Base AAC
DE7463*	3	Outfeed Table
DE7468*	4	Fence Rail System
DE7464	5	Extension Table
DE7462	Illustrated	Cast iron support table
DE7470	Illustrated	Dust Extraction System

### DW746K

Power Input	2700 Watts
Blade Speed	3000 tr/mn
Blade Diameter	250 mm
Blade Bore	30 mm
Bevel Capacity	47 /-2°
Max. Ripping Capacity (left)	370 mm
Table Size	908 / 1400 mm
Weight	124 kg
Depth x Length x Height	1886x1400x985 mm

#### Attachment for DW745







- Stand for DW745
- Collapsible format and detachable legs for easy transportation.
- Detachable leg extensions for different saw heights.

Cat. No.	Description
DE7450	Heavy duty stand for DW745








# Electrical tools

## Metal Core Drilling Machines

					
Type	Rotabest® 32 RQ	Rotabest® 40 RQ	Rotabest® 40 RL-E	Rotabest® 60	Rotabest® 60 RL-E
Prod.-No.	18600	18610	18611	18625	18626
Input	900 W	1200 W	1200 W	1800 W	1800 W
Speed	450 rpm	250 / 450 rpm	100-250 rpm 180-450 rpm	110 / 175 / 245 / 385 rpm	50-110 / 75-175 / 105-245 / 165-385 rpm
Full Wave Electronics	-	-	■	-	■
Right-/Left Rotation	-	-	■	-	■
Friction Clutch	-	-	-	■	■
Max. ø of Cutter	32 mm	40 mm	40 mm	60 mm	60 mm
Max. Cutting Depth	35 mm	50 mm	50 mm	50 mm	50 mm
Tapping	-	with Tapping Attachment	M 16	with Tapping Attachment	M 22
Countersinking	■	■	■	■	■
Twist Drills max. ø	13 mm	13 mm	16 mm	32 mm	32 mm
Arbor	19 mm Weldon Rota-Quick® quick change arbor	19 mm Weldon Rota-Quick® quick change arbor	MT 2	MT 3	MT 3
Magnetic Adhesion	11000 N rigid	16000 N rigid	16000 N rigid	20000 N 30° swiveling	20000 N 30° swiveling
Minimum Material Thickness	6 mm	6 mm	6 mm	10 mm	10 mm
Size of Magnet Foot	70 x 180 mm	80 x 230 mm	80 x 230 mm	80 x 230 mm	80 x 230 mm
Stroke	160 mm	170 mm	170 mm	190 mm	190 mm
Motor adjustable in height	-	de 160 - 260 mm	de 160 - 260 mm	de 226 - 286 mm	de 226 - 286 mm
Weight	10,5 kg	16 kg	16 kg	22 kg	22 kg

# Electrical tools

## Metal Core Drilling Machines

					
<b>Rotabest® 100+100 RL-E</b>	<b>Rotabest® V32</b>	<b>Piccolo 32 / 50</b>	<b>Mini 36 / 50</b>	<b>Mini 40 / 2</b>	<b>Junior 75 / 4</b>
18630 / 18362	18710	18550	18551	18541	18567
1800 W	900 W	1050 W	1050 W	1200 W	1800 W
110 / 175 / 245 / 385 rpm	450 rpm	400 rpm	400 rpm	250 / 450 rpm	110 / 175 / 245 / 385 rpm
-	-	-	-	-	-
-	-	-	-	-	-
■	-	-	-	-	■
100 mm	32 mm	32 mm	36 mm	40 mm	75 mm
50 mm	25 mm	50 mm	50 mm	50 mm	50 mm
M 22	-	-	-	-	with Tapping Attachment
■	■	■	■	■	■
32 mm	-	13 mm	13 mm	10 mm	32 mm
MT 3	19 mm Weldon	19 mm Weldon	19 mm Weldon	19 mm Weldon	MT 3
20000 N 30° swiveling	12000 N rigid	8000 N rigid	12000 N rigid	12000 N rigid	18000 N 330° swiveling
10 mm	6 mm	6 mm	6 mm	6 mm	10 mm
80 x 230 mm	90 x 200 mm	70 x 160 mm	95 x 200 mm	95 x 200 mm	95 x 200 mm
245 mm	-	129 mm	141 mm	141 mm	235 mm
de 295 - 400 mm	-	de 100 - 200 mm	de 115 - 295 mm	-	-
28 kg	12,5 kg	10,6 kg	15,2 kg	15 kg	25 kg

# Electrical tools

## TCT hole saws and core drills HSS-Co-Eco

• With Weldon shank 19,0 mm

• Internal bore 6,35 mm

• HSS-Co

**Suitable for :**

ALFRA-Rotabest® (Weldon), ALFRA-RotaQuick®, BDS, Bux, Ruko, Magnetor, Euroboor, Universal, Nitto, Jancy, Magtron, Promac, Rotabroach and other branches with Weldon shank.

Ø mm	No. Art.	No. Art.	No. Art.	No. Art.
Cutting depth	25 mm	35 mm	50 mm	110 mm
12,0	1901012025	1901012035	1901012050	-
13,0	1901013025	1901013035	1901013050	-
13,5	1901013525	-	1901013550	-
14,0	1901014025	1901014035	1901014050	-
15,0	1901015025	1901015035	1901015050	-
15,5	1901015525	-	1901015550	-
16,0	1901016025	1901016035	1901016050	-
17,0	1901017025	1901017035	1901017050	-
17,5	1901017525	-	1901017550	-
18,0	1901018025	1901018035	1901018050	-
19,0	1901019025	1901019035	1901019050	-
19,5	1901019525	-	1901019550	-
20,0	1901020025	1901020035	1901020050	1901020110
21,0	1901021025	1901021035	1901021050	-
22,0	1901022025	1901022035	1901022050	1901022110
23,0	1901023025	1901023035	1901023050	-
24,0	1901024025	1901024035	1901024050	1901024110
25,0	1901025025	1901025035	1901025050	1901025110
26,0	1901026025	1901026035	1901026050	1901026110
26,5	1901026525	-	1901026550	-
27,0	1901027025	1901027035	1901027050	-
28,0	1901028025	1901028035	1901028050	1901028110
29,0	1901029025	1901029035	1901029050	-
30,0	1901030025	1901030035	1901030050	1901030110
31,0	1901031025	1901031035	1901031050	-
32,0	1901032025	1901032035	1901032050	1901032110
33,0	1901033025	1901033035	1901033050	-
34,0	1901034025	1901034035	1901034050	-
35,0	1901035025	1901035035	1901035050	1901035110
36,0	1901036025	1901036035	1901036050	-
37,0	1901037025	1901037035	1901037050	-
38,0	1901038025	1901038035	1901038050	-
39,0	1901039025	1901039035	1901039050	-
40,0	1901040025	1901040035	1901040050	1901040110
41,0	1901041025	-	1901041050	-
42,0	1901042025	-	1901042050	-
43,0	1901043025	-	1901043050	-
44,0	1901044025	-	1901044050	-
45,0	1901045025	-	1901045050	1901045110
46,0	1901046025	-	1901046050	-
47,0	1901047025	-	1901047050	-
48,0	1901048025	-	1901048050	-
49,0	1901049025	-	1901049050	-
50,0	1901050025	-	1901050050	1901050110
51,0	-	-	1901051050	-
52,0	1901052025	-	1901052050	-
53,0	-	-	1901053050	-
54,0	-	-	1901054050	-
55,0	1901055025	-	1901055050	-
56,0	-	-	1901056050	-
57,0	-	-	1901057050	-
58,0	-	-	1901058050	-
59,0	-	-	1901059050	-
60,0	1901060025	-	1901060050	-
Extraction rod	1926500	1935500	1950500	2001502
Sizes	6,35 x 77	6,35 x 87	6,35 x 102	8 x 160



Rod for RotaQuick® Weldon



High performance teeth for roughing (1) and finishing (2)



# Electrical tools

## TCT holes saws sets HSS-Co-Eco

	No. Art.
<b>Hole saws set HSS-Co-Eco</b>	<b>1901003025</b>
Cutting depth 25 mm	
6 saws, $\varnothing$ 12.0 - 14.0 - 16.0 - 18.0 - 20.0 - 22.0 mm	
With 1 extraction rod, no. 1926500	



No. Art. 1901003025

<b>Hole saws set HSS-Co-Eco</b>	<b>1901001025</b>
Cutting depth 25 mm	
10 saws, $\varnothing$ 2 x 12.0 - 2 x 14.0 - 1 x 16.0 - 2 x 18.0 - 1 x 20.0 - 2 x 22.0 mm	
With 1 extraction rod, no. d'art. 1926500	



No. Art. 1901001025

<b>Hole saws set HSS-Co-Eco</b>	<b>1901003050</b>
Cutting depth 50 mm	
6 saws, $\varnothing$ 14.0 - 16.0 - 18.0 - 20.0 - 22.0 - 26.0 mm	
With 1 extraction rod, no. 1950500	



No. Art. 1901003050

<b>Hole saws set HSS-Co-Eco</b>	<b>1901001050</b>
Cutting depth 50 mm	
10 saws, $\varnothing$ 2 x 14.0 - 1 x 16.0 - 2 x 18.0 - 1 x 20.0 - 2 x 22.0 - 1 x 24.0 - 1 x 26.0 mm	
With 2 extraction rods, no. 1950500	



No. Art. 1901001050





# Pneumatic tools

## Impact Wrench Pneumatic - 1/2 and 3/4"



**RP9546**  
Square Drive  
1/2"



**RP9549**  
Square Drive  
3/4"



**RP9560**  
Square Drive  
3/4"



**RP9561**  
Square Drive  
3/4"

Model	Square Drive	Free Speed	Working Torque Wrench		Maximum Working Torque Wrench		Air Consumption		Total Length		Weight		Sound Pressure	Sound Pressure	Vibration	Air inlet
	in.	tr/min.	Nm	ft lb	Nm	ft lb	l/s	cfm	mm	in.	kg	lb	dB(A)	dB(A)	m/s <sup>2</sup>	NPTF
RP9546	1/2	6,400	68-610	50-450	827	625	2.6	5.5	178	7.0	2.49	5.5	95	106	4.9	1/4"
RP9549	3/4	3,900	271-1017	200-750	1559	1150	18.4	39	226	8.9	5.75	12.6	97	108	8.0	3/8"
RP9560	3/4	4,200	200-950	150-700	1360	1000	11.3	24	244	9.6	4.80	10.5	99	110	4.9	3/8"
RP9561	3/4	5,500	102-680	75-500	1020	750	14.1	30	216	8.5	4.80	10.5	100	111	5.1	3/8"

## Impact Wrench Pneumatic - 1"



**RP9548**  
Square Drive  
1"



**RP9582**  
Square Drive  
1" right



**RP9583**  
Square Drive  
1" right



**RP9597**  
Square Drive  
1"

Model	Square Drive	Free Speed	Working Torque Wrench		Maximum Working Torque Wrench		Air Consumption		Total Length		Weight		Sound Pressure	Sound Pressure	Vibration	Air inlet
	in.	tr/min.	Nm	ft lb	Nm	ft lb	l/s	cfm	mm	in.	kg	lb	dB(A)	dB(A)	m/s <sup>2</sup>	NPTF
RP9548	1	3,900	135-810	100-600	1285	950	18.4	39	226	8.90	5.75	12.6	97	108	8.0	3/8"
RP9582	1	4,200	200-1225	150-900	1900	1400	18.9	40	394	15.5	12.3	27.0	110	121	4.3	1/2"
RP9583	1	4,200	200-1225	150-900	1900	1400	18.9	40	564	22.2	13.5	29.8	110	121	4.3	1/2"
RP9597	1	4,700	407-1898	300-1400	2712	2000	22.7	48	241	9.50	9.10	20.0	101	112	13.0	1/2"

# Pneumatic tools

## Impact Wrench Pneumatic - 3/8"



**RP9521**  
Square Drive  
3/8"



**RP9522**  
Square Drive  
3/8"



**RP9524**  
Square Drive  
3/8"



**RP9525**  
Square Drive  
3/8"

Model	Square Drive	Free Speed	Working Torque Wrench		Maximum Working Torque Wrench		Air Consumption		Total Length		Weight		Sound Pressure	Sound Pressure	Vibration	Air inlet
	in.	tr/min.	Nm	ft lb	Nm	ft lb	l/s	cfm	mm	in.	kg	lb	dB(A)	dB(A)	m/s <sup>2</sup>	NPTF
RP9521	3/8	11,000	6.8-70	5-50	122	90	4.7	10	146	5.75	1.2	2.6	84	95	4.9	1/4"
RP9522	3/8	9,500	6.8-70	5-50	122	90	4.7	10	146	5.75	0.9	2.0	86	97	2.6	1/4"
RP9523	3/8	11,000	6.8-70	5-50	122	90	4.7	10	146	5.75	1.2	2.6	84	95	4.9	1/4"
RP9524	3/8	8,500	27-217	20-160	272	200	5.7	12	152	6.0	1.4	3.1	94	105	< 2.5	1/4"
RP9525	3/8	8,500	27-217	20-160	272	200	5.7	12	152	6.0	1.4	3.1	94	105	< 2.5	1/4"

## Impact Wrench Pneumatic - 1/2"



**RP9526**  
Square Drive  
1/2"



**RP9540**  
Square Drive  
1/2"



**RP9541**  
Square Drive  
1/2"



**RP9545**  
Square Drive  
1/2"

Model	Square Drive	Free Speed	Working Torque Wrench		Maximum Working Torque Wrench		Air Consumption		Total Length		Weight		Sound Pressure	Sound Pressure	Vibration	Air inlet
	in.	tr/min.	Nm	ft lb	Nm	ft lb	l/s	cfm	mm	in.	kg	lb	dB(A)	dB(A)	m/s <sup>2</sup>	NPTF
RP9526	1/2	8,500	27-217	20-160	272	200	5.7	12	152	6.0	3.1	3.1	94	105	< 2.5	1/4"
RP9540	1/2	8,400	34-420	25-310	576	425	7.1	15	191	7.5	5.1	5.1	94	105	< 2.5	1/4"
RP9541	1/2	8,900	34-434	25-320	603	445	6.6	14	168	6.6	5.5	5.5	89	100	2.7	1/4"
RP9545	1/2	6,900	34-542	25-400	746	550	9.0	19	180	7.1	5.6	5.6	96	107	4.0	1/4"



# Pneumatic tools

## Air Screwdrivers



**RP2780**



**RP2754**



**RP2755**



**RP2765**



**RP2036**



**RP2037**



**RP2041**



**RP2042**

Model	Free Speed	Chuck Size	Torque Range				Air Consumption		Total Length		Weight		Sound Pressure	Vibration	Air inlet
			MIN.		MAX.										
	tr/min.	in.	Nm	in. lb	Nm	in. lb	l/s	cfm	mm	in.	kg	lb	dB(A)	m/s²	NPTF
RP2754	1,450	Hex.1/4F	-	-	5	44	8	17	210	8.3	0.9	2.0	77	< 2.5	1/4"
RP2755	2,200	Hex.1/4F	-	-	14	124	14	29	160	6.3	1.03	2.27	90	< 2.5	1/4"
RP2765	900	Hex.1/4F	-	-	26	230	14	29	178	7.0	1.18	2.60	88	< 2.5	1/4"
RP2780	2,100	Hex.1/4F	-	-	15	133	14	29	164	6.46	1.06	2.35	89	26.8	1/4"
RP2036	10,000	Hex.1/4F	3.4	30	16	142	6	13	223	8.78	0.78	1.73	83	6.9	1/4"
RP2037	10,000	Hex.1/4F	18	160	28	248	6	13	210	8.27	0.82	1.81	88	6.2	1/4"
RP2041	15,000	Hex.1/4F	8	71	42	372	9	19	152	5.98	1.04	2.29	89	4.8	1/4"
RP2042	5,600	Hex.1/4F	6	53	41	363	13	27	153	6.02	1.02	2.25	88	6.0	1/4"

# Pneumatic tools

## Air Ratchets



**RP9425**  
Square Drive  
1/4"



**RP9429**  
Square Drive  
3/8"



**RP9430**  
Square Drive  
1/2"



Square Drive  
3/8 and 1/2"

**RP9431Q**  
**RP9432Q**

Model	Square Drive	Free Speed	Torque Wrench				Air Consumption		Total Length		Weight		Sound Pressure	Sound Pressure	Vibration	Air inlet
			MIN.		MAX.											
	in.	tr/min.	Nm	ft. lb	Nm	ft. lb	l/s	cfm	mm	in.	kg	lb	dB(A)	dB(A)	m/s²	NPTF
RP9425	1/4	200	7	5	20	15	4.7	10	165	6.5	0.85	1.9	87	98	6.2	1/4"
RP9429	3/8	150	14	10	68	50	7.5	16	254	10	1.20	2.6	97	108	7.9	1/4"
RP9430	1/2	150	14	10	68	50	7.5	16	254	10	1.20	2.6	97	108	7.9	1/4"
RP9431Q	3/8	190	14	10	122	90	18.5	39	305	12	1.20	2.7	79	-	14.8	1/4"
RP9432Q	1/2	190	14	10	122	90	18.5	39	305	12	1.20	2.7	79	-	14.8	1/4"

## Air Drills



**RP1064**



**RP1454**



**RP1664**



**RP1264**

Model	Free Speed tr/min.	Power		Chuck Size		Spindle Size in.	Max. Torque		Air Consumption		Total Length		Weight		Sound Pressure dB(A)	Air inlet NPTF
		kW	hp	mm	in.		Nm	ft lb	l/s	cfm	mm	in.	kg	lb		
<b>RP1064</b>	2,500	0.23	0.30	10	3/8	3/8-24	1.8	1.32	9.3	19.7	225	8.9	0.7	1.5	83	1/4"
<b>RP1454</b>	4,300	0.23	0.30	10	3/8	3/8-24	1.0	0.74	9.3	19.7	225	8.9	0.7	1.5	83	1/4"
<b>RP1664</b>	2,000	0.19	0.26	10	3/8	3/8-24	1.8	1.32	9.3	19.7	225	8.9	0.7	1.5	83	1/4"
<b>RP1264</b>	2,900	0.28	0.38	10	3/8	3/8-24	1.8	1.32	9.3	19.7	175	6.9	0.9	2.0	78	1/4"

# Pneumatic tools

## Air Drills



**RP1274**



**RP9280**



**RP9879**



**RP9887**

Model	Free Speed	Power		Chuck Size		Spindle Size	Max. Torque		Air Consumption		Total Length		Weight		Sound Pressure	Sound Pressure	Air inlet
	tr/min.	kW	hp	mm	in.	in.	Nm	ft lb	l/s	cfm	mm	in.	kg	lb	dB(A)	dB(A)	NPTF
<b>RP1274</b>	2,900	0.28	0.38	10	3/8	3/8-24	1.8	1.32	9.3	19.7	175	6.9	0.9	2.0	78	-	1/4"
<b>RP9280</b>	3,200	0.23	0.30	6.4	1/4	3/8-24	2.6	1.92	9.0	19.0	142	5.6	0.6	1.3	82	-	1/4"
<b>RP9879</b>	1,300	0.18	0.25	10	3/8	3/8-24	4.7	3.46	8.5	18.0	200	8.0	0.7	1.5	91	102	1/4"
<b>RP9887</b>	2,800	0.37	0.50	10	3/8	3/8-24	4.7	3.46	12.0	26.0	215	8.5	0.9	2.0	88	99	1/4"



**RP9285**



**RP9790**



**RP9286  
RP9789**

Model	Free Speed	Power		Chuck Size		Spindle Size	Max. Torque		Air Consumption		Total Length		Weight		Sound Pressure	Sound Pressure	Air inlet
	tr/min.	kW	hp	mm	in.	in.	Nm	ft lb	l/s	cfm	mm	in.	kg	lb	dB(A)	dB(A)	NPTF
<b>RP9285</b>	2,900	0.38	0.50	10	3/8	3/8-24	5.3	3.91	10.0	21	165	6.5	1.1	2.4	89	100	1/4"
<b>RP9286</b>	600	0.38	0.50	13	1/2	3/8-24	20.0	14.70	11.5	24	177	7.0	1.8	4.0	90	101	1/4"
<b>RP9789</b>	800	0.27	0.37	13	1/2	3/8-24	12.4	9.14	11.5	24	177	7.0	1.8	4.0	90	101	1/4"
<b>RP9790</b>	2,000	0.27	0.37	10	3/8	3/8-24	4.8	3.54	11.5	24	165	6.5	1.4	3.0	89	100	1/4"

# Pneumatic tools

## Air Grinders


**9104Q**

**RP9105**

**RP9106**

**RP9108**

**RP9107**

**RP9110**

**RP9111**

**RP9112Q**

Model	Free Speed	Power		Collet Spindle Size		Air Consumption		Total Length		Weight		Sound Pressure	Vibration	Air inlet
	tr/min.	kW	hp	mm	in.	l/s	cfm	mm	in.	kg	lb	dB(A)	m/s <sup>2</sup>	NPTF
<b>RP9104Q</b>	60,000	0.04	0.054	3.2	1/8	3.5	7	133	5.2	0.2	0.5	71	8.3	1/4"
<b>RP9105</b>	30,000	0.18	0.25	6.4	1/4	9.0	19	163	6.4	0.4	0.8	84	6.8	1/4"
<b>RP9106</b>	25,000	0.18	0.25	6.4	1/4	9.0	19	165	6.5	0.5	1.1	84	3.6	1/4"
<b>RP9108</b>	25,000	0.18	0.25	6.4	1/4	9.0	19	200	7.9	0.5	1.1	84	4.4	1/4"
<b>RP9107</b>	17,000	0.15	0.2	6.4	1/4	8.5	16	120	4.7	0.7	1.5	81	< 2.5	1/4"
<b>RP9110</b>	30,000	0.18	0.25	-	1/4	9.0	19	256	10.0	0.7	1.5	84	4.0	1/4"
<b>RP9111</b>	22,000	0.35	0.46	6.0	1/4	11.5	25	170	6.7	0.7	1.5	84	5.0	1/4"
<b>RP9112Q</b>	22,000	0.35	0.46	6.0	1/4	11.5	25	330	13.0	1.3	2.9	80	3.5	1/4"

# Pneumatic tools

## Air grinders


**RP9118**

**RP9120**

**RP9121**

**RP9123**

Model	Free Speed	Power		Wheel ø		Spindle size	Air consumption		Total length		Weight		Sound Pressure	Vibrations	Air inlet
	tr/min.	kW	hp	mm	in.	in.	l/s	cfm	mm	in.	kg	lb	dB(A)	m/s <sup>2</sup>	NPTF
<b>RP9118</b>	20,000	0.175	0.24	51	2.0	3/8-24	4.0	8	140	5.5	0.6	1.2	81	8.5	1/4"
<b>RP9120</b>	14,000	0.5	0.68	102	4.0	3/8-24	10.0	21	229	9	1.8	4.0	84	7.5	1/4"
<b>RP9121</b>	12,000	0.5	0.68	127	5.0	3/8-24	10.0	21	229	9	1.9	4.2	84	8.1	1/4"
<b>RP9123</b>	7,500	0.85	1.12	178	7.0	5/8-11	19.0	40	340	13.4	3.4	7.5	93	<2.5	1/4"


**RP9114**

**RP9113**

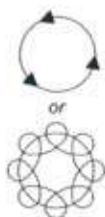
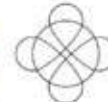
**RP9101**

**RP9102**

Model	Free Speed	Power		Pliers diameter		Air consumption		Total length		Weight		Sound Pressure	Vibrations	Air inlet
	tr/min.	kW	hp	mm	in.	l/s	cfm	mm	in.	kg	lb	dB(A)	m/s <sup>2</sup>	NPTF
<b>RP9101</b>	22,500	0.15	0.20	6.4	1/4	11.0	23	122	4.80	0.45	1.0	101	3.0	1/4"
<b>RP9102</b>	30,000	0.22	0.30	6.4	1/4	12.0	25	121	4.75	0.34	0.75	96	5.4	1/4"
<b>RP9113</b>	24,000	0.37	0.50	6.4	1/4	10.5	22	146	5.75	0.57	1.25	92.6	4.8	1/4"
<b>RP9114</b>	22,000	0.30	0.40	6.4	1/4	13.0	27	146	5.75	0.57	1.25	101	<2.5	1/4"

# Pneumatic tools

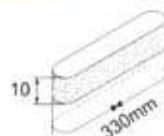
## Air sanders and polisher



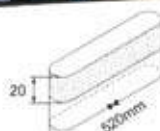
Model	Free Speed	Paper size ø		Spindle size	Air consumption		Total length		Weight		Sound Pressure	Sound Pressure	Vibrations	Air inlet
	tr/min.	kW	hp	in.	l/s	cfm	mm	in.	kg	lb	dB(A)	dB(A)	m/s <sup>2</sup>	NPTF
<b>RP9164</b>	9,600	152	6	5/16-24	8.80	18	222	8.75	1.7	3.8	90	101	7.3	1/4"
<b>RP9534</b>	9,000	152	6	5/16-24	8.97	19	190	7.5	1.3	2.9	83	-	<2.5	1/4"
<b>RP9674</b>	9,000	152	6	5/16-24	8.97	19	190	7.5	1.3	2.9	83	-	<2.5	1/4"
<b>RP9778</b>	18,500	127	5	7/16-20	12.0	26	203	8.0	1.0	2.3	90	101	<2.5	1/4"



**RP9779**



**RP9780**



Model	Free Speed	Paper size ø		Power		Air consumption		Total length		Weight		Sound Pressure	Sound Pressure	Vibrations	Air inlet
	tr/min.	mm	in.	W	hp	l/s	cfm	mm	in.	kg	lb	dB(A)	dB(A)	m/s <sup>2</sup>	NPTF
<b>RP9779</b>	22,000	10x330	3/8x13	260	0.35	13.3	28	305	12.0	0.90	1.98	90.5	101.5	<2.5	1/4"
<b>RP9780</b>	20,000	20x520	3/4x20,4	380	0.51	14.6	30	380	15.0	1.50	3.30	90.5	101.5	<2.5	1/4"



# Pneumatic tools

## Air hammers



**RP9536**



**RP9537**



**RP9311**



**RP9311Kit**



**RP9312**



**RP9315**



**RP9538**

Model	Riveting capacity (Aluminium)		Riveting capacity (Steel)		Bore x Piston stroke		Blow per min.	Shank		Air consumption		Total length		Weight		Sound Pressure	Sound Pressure	Vibra- tions	Air inlet
	mm	in.	mm	in.	mm	in.		mm	in.	l/s	cfm	mm	in.	kg	lb	dB(A)	dB(A)	m/s <sup>2</sup>	NPTF
<b>RP9536</b>	6.4	1/4	4.8	3/16	19x67	3/4x2 <sup>5/8</sup>	3,200	10.2	0.401	7.0	14	230	9.0	1.7	3.7	97	108	5.9	1/4"
<b>RP9537</b>	7.9	5/16	6.4	1/4	19x90	3/4x3 <sup>1/2</sup>	2,200	10.2	0.401	8.0	17	280	11.0	2.1	4.6	95	106	4.2	1/4"
<b>RP9311</b>	6.4	1/4	4.8	3/16	19x67	3/4x2 <sup>5/8</sup>	3,000	10.2	0.401	11.8	25	171	6.7	1.6	3.5	100	111	8.9	1/4"
<b>RP9311Kit</b>	6.4	1/4	4.8	3/16	19x67	3/4x2 <sup>5/8</sup>	3,000	10.2	0.401	11.8	25	171	6.7	1.6	3.5	100	111	8.9	1/4"
<b>RP9312</b>	6.4	1/4	4.8	3/16	19x67	3/4x2 <sup>5/8</sup>	3,000	10.2	0.401	11.8	25.0	171	6.7	1.6	3.5	100	111	8.9	1/4"
<b>RP9315</b>	7.9	5/16	6.4	1/4	19x89	3/4x3 <sup>1/2</sup>	2,300	10.2	0.401	11.8	25.0	225	8.9	1.9	4.2	100	111	9.4	1/4"
<b>RP9538</b>					25x28.6	1x1 <sup>1/8</sup>	4,600	12.7	1/2 Sq.	7.4	15.5	457	18.0	2.8	6.2	99	110	9.7	1/4"

# Pneumatic tools

## Special air tools

Reciprosaw



RP9881

Reciprosaw



RP9882



Air speed cutter

RP9884



Engraving pen

RP9160

Model	Wheel ø		Max. speed	Blow per min.	Stroke		Air consumption		Total length		Weight		Sound Pressure	Vibrations	Air inlet
	mm	in.			mm	in.	l/s	cfm	mm	in.	kg	lb			
RP9881	-	-	-	5,000	25	1	13.0	27	268	10.5	1.0	2.20	81	<2.5	1/4"
RP9882	-	-	-	9,500	10	3/8	2.8	6	219	8.63	0.74	1.63	97.7	12.9	1/4"
RP9884	76	3	22,000	-	-	-	5.9	12.5	184	7.25	0.79	1.75	99	4.0	1/4"
RP9160	-	-	-	32,400	-	-	0.8	1.69	147	5.8	0.123	0.25	59	<7.0	1/4"



RP9840



RP9880







RP9885

Model	Traction power		Max. stroke		Air consumption		Total length		Weight		Sound Pressure	Vibrations	Air Inlet
	kg	lb@85psi	mm	in.	l/s	cfm	mm	in.	kg	lb			
RP9840	1089	2400	19.5	0.767	1.85	4.0	290	11.40	1.88	4.10	72	<2.5	1/4"
RP9850	1679	3700	15.0	0.590	1.85	4.0	301	11.85	1.95	4.29	66	3.2	1/4"
RP9880	-	-	-	-	10.54	22.0	245	10.00	0.13	0.29	95	-	1/4"
RP9885	-	-	-	-	8.0	16.8	270	10.06	1.04	2.32	82	<2.5	1/4"





# Workshop machine

## Air machines Atlas Copco





### Impactwrenches Atlas Copco

Model	W2210A	W2214XT	W2220	W2226C
Reference	8434124431	8434124470	8434124439	8434124456
Square drive	(3/8") 10 mm	(1/2") 12,7 mm	(3/4") 19 mm	(1") 25,4 mm
Bolt capacity	M14	M20	M30	M30
Torque wrench	270 Nm	640 Nm	1500 Nm	1500 Nm
Speed	9000 tr/min	7300 tr/min	3800 tr/min	3800 tr/min
Weight	1,7 kg	2,4 kg	6,3 kg	6,8 kg
Air consumption under load	8,7 l/s	11,6 l/s	18 l/s	18 l/s
Hose size	10 mm (3/8")	10 mm (3/8")	13 mm (1/2")	13 mm (1/2")
Air inlet thread	1/4" BSP	1/4" BSP	3/8" BSP	3/8" BSP
				






### Ratchets Atlas Copco

Model	W2200A	W2201A	W2303 Mini	W2301
Reference	8431034910	8431034902	8431035003	8431036011
Square drive	(3/8") 10 mm	(1/2") 12,7 mm	(3/8") 10 mm	(1/2") 12,7 mm
Bolt capacity	M10	M10	M8	M12
Torque range	5 to 40 Nm	5 to 40 Nm	3-30 Nm	5-68 Nm
Speed	150 tr/min	150 tr/min	200 tr/min	150 tr/min
Length	265 mm	265 mm	195 mm	258 mm
Weight	1,1 kg	1,1 kg	0,5 kg	1,2 kg
Air consumption under load	7,6 l/s	7,6 l/s	3,4 l/s	7,2 l/s
Hose size	10 mm (3/8")	10 mm (3/8")	10 mm (3/8")	10 mm (3/8")
Air inlet thread	1/4" BSP	1/4" BSP	1/4" BSP	1/4" BSP
				

### Screwdriver Atlas Copco

Model	S2305	S2326	S2308-C	S2450-P
Reference	8431025728	8431025736	8431025720	8431025784
Torque range	12 Nm	4,5 Nm	2,5-11 Nm	2,4-5 Nm
Speed	625 tr/min	1850 tr/min	850 tr/min	1100 tr/min
Length	198 mm	178 mm	228 mm	225 mm
Weight	0,9 kg	0,8 kg	1,1 kg	1,1 kg
Air consumption under load	5,6 l/s	5,6 l/s	8,4 l/s	6 l/s
Hose size	10 mm (3/8")	10 mm (3/8")	10 mm (3/8")	10 mm (3/8")
Air inlet thread	1/4" BSP	1/4" BSP	1/4" BSP	1/4" BSP
	to n° 12	to n° 8	to n° 12	to n° 8
	to M8	to M5	to M6	to M5
	to B10	to B6	to B14	to B6
				




### Drills Atlas Copco

Model	D2112	D2116	D2121	D2148R	D2163
Reference	8421040505	8421040513	8421040521	8421040703	8421041008
Chuck capacity	0-6,5 mm	1,5-10 mm	2-13 mm	2-13 mm	1,5-10 mm (3/8")
Thread	3/8"-24 UNF	3/8"-24 UNF	3/8"-24 UNF	3/8"-24 UNF	3/8"-24 UNF
Speed	5400 tr/min.	2400 tr/min.	750 tr/min.	625 tr/min.	2000 tr/min
Length	206 mm	211 mm	248 mm	215 mm	
Angle height with chuck					115 mm
Weight	1,0 kg	1,0 kg	1,4 kg	1,1 kg	1,1 kg
Air consumption under load	8,9 l/s	8,9 l/s	8,9 l/s	5,6 l/s	9,0 l/s
Hose size	10 mm (3/8")	10 mm (3/8")	10 mm (3/8")	10 mm (3/8")	10 mm (3/8")
Air inlet thread	1/4" BSP	1/4" BSP	1/4" BSP	1/4" BSP	1/4" BSP
					

# Workshop machine

## Air machines Atlas Copco

### Hammers Atlas Copco

Model	P2515 A	P2516 A	P2525	P2526
Reference	8425010359	8425010367	8425020602	8425020610
Chisel shank	spécial 12,7 mm (1/2")	straight needle scaler	ø 10,2 mm	• 12,7 mm
Percussion rate	66 Hz	66 Hz	50 Hz	55 Hz
Stroke	25 mm	25 mm	59 mm	67 mm
Total length	228 mm	373 mm	218 mm	218 mm
Weight	1,9 kg	2,6 kg	1,7 kg	1,7 kg
Air consumption under load	2,5 l/s	2,5 l/s	8,3 l/s	8,3 l/s
Hose size	10 mm (3/8")	10 mm (3/8")	10 mm (3/8")	10 mm (3/8")
Air inlet thread	1/4" BSP	1/4" BSP	1/4" BSP	1/4" BSP
				

### Angle polisher Atlas Copco

Model	G2406	G2401
Reference	8423030488	8423032443
Speed	2000 tr/min	10000 tr/min
Pad diameter	180 mm	ø 150 mm
Spindle thread	UNC5/8-11	5/16"-24 UNF
Length	245 mm	225 mm
Weight	1,4 kg	2,0 kg
Air consumption under load	9,0 l/s	7,7 l/s
Hose size	10 mm (3/8")	10 mm (3/8")
Air inlet thread	1/4" BSP	1/4" BSP



G2406



G2401

Model	G2418	G2428	G2438 6,5 N
Reference	8423181016	8423281016	8423031305
Speed	9025 tr/min.	9025 tr/min.	12000 tr/min.
Pad diameter	150 mm	150 mm	150 mm
Weight	1,5 kg	1,5 kg	0,9 kg
Air consumption under load	9 l/s	8 l/s	9 l/s
Hose size	10 mm	10 mm	10 mm
Air inlet thread	1/4"	1/4"	1/4"
Sound Pressure	92dB (A)	92 dB (A)	79 dB (A)
			

### Polisher Atlas Copco

Model	G2415	G2416
Reference	8423252249	8423252256
Speed	8500 tr/min.	6000 tr/min.
Max. wheel diameter	ø 180 mm	ø 180 mm
Max. cup wheel diameter	ø 100 mm	ø 125 mm
Wire brush diameter		ø 140 mm
Spindle thread	UNC 5/8" -11	UNC 5/8" -11
Height	180 mm	180 mm
Weight	2,65 kg	2,65 kg
Air consumption under load	21 l/s	18 l/s
Hose size	13 mm (1/2")	13 mm (1/2")
Air inlet thread	1/2" BSP	1/2" BSP



G2415



G2416

Model	G2408-125	G2414	G2424
Reference	8423031480	8423031230	8423031255
Speed	12000 tr/min.	20000 tr/min.	20000 tr/min.
Max. wheel diameter	125 mm		
Spindle thread	3/8"-24 UNF	6 mm	6 mm
Total height	72 mm		
Length	225 mm	220 mm	317 mm
Weight	0,9 kg	0,78 kg	0,96 kg
Air consumption under load	12,1 l/s	19 l/s	19 l/s
Hose size	10 mm (3/8")	13 mm (1/2")	13 mm (1/2")
Air inlet thread	1/4" BSP	1/2" BSP	1/2" BSP
			

# Workshop machine

## Air machines Atlas Copco

### Impact wrenches Atlas Copco

Model	Bolt capacity mm	Square drive	Torque range Nm	Speed	Weight	Length	Air consumption under load
LMS06HR10	6-8	3/8	55	13500	0,9	184	4
LMS17HR10	10	3/8	110	10000	1,7	141	10
LMS17HR13	10	1/2	110	10000	1,7	141	10
LMS27HR13	12	1/2	220	8700	2,1	142	10
LMS37HR13	14-16	1/2	480	7800	2,7	165	13
LMS57HR20	18-20	3/4	900	4500	4,3	189	16
LMS64HR25	24-32	1"	2300	3100	9	195	21
LMS86GOR38/B	32-45	1 1/2"	10000	3720	16,4	376	29

#### With torque control

LTS17HR10	8-10	3/8	22-45	10000	2	214	6
LTS27HR13-1	10-12	1/2	50-110	9300	2,6	226	6
LTS37HR13	12-14	1/2	80-340	8800	3,7	200	10
LTS57HR20	18-20	3/4	200-500	4600	5,3	225	13



### Nutrunners Atlas Copco

Model	Bolt capacity mm	Square drive	Torque range Nm	Speed	Weight	Length
EP4PTX9SR10	M5	3/8	4-9	3400	0,9	207
EP6PTX19SR10	M6	3/8	10-19	6800	0,9	207
EP8PTX45SR10	M8	3/8	24-45	5500	1,2	235

#### Revolver handles

EP4PTX9HR10-RE	M5	3/8	4-9	3400	0,9	164
EP5PTX19HR10-RE	M6	3/8	8-19	7000	0,9	164
EP7PTX55HR10-RE	M8-M10	3/8	30-55	7200	1,2	176
EP8PTX70HR10-RE	M10	3/8	40-70	6900	1,2	176



### Screwdriver Atlas Copco

Model	Bolt capacity	Torque range Nm	Speed	Air consumption at free speed	Weight	Length
LUM10PR05	M1,6-M4	0,1-1,5	460	3	0,4	206
LUM12PR4	M2,5-M4	0,4-4,2	750	4,5	0,55	195
LUM22PR6	M3-M5	1,5-6	1000	7	0,75	211
LUM22PR10	M4-M5	3,5-10	700	7	0,95	232
LUM22PR12	M4-M6	3,5-12,5	450	7	0,9	224

#### Pistol grip with trigger start

LUM12HRX8	M2,5-M4	1,5-8	500	6	0,7	186
LUM22HRX12	M4-M6	3,5-12,5	500	9	1,1	211



### Grinders Atlas Copco

Model	Free speed	Max. burr diameter	Max. wheel diameter	Weight	Length
LSF18S300	30000	12	20	0,5	193
LSF28S180	18000	16	40	0,75	210
LSF28S250	25000	12	32	0,75	210



### Angle grinders Atlas Copco

Model	Free speed tr/min.	Wheel diameter	Weight kg	Height mm	Power W
LSV18S170-08	17000	80x7x10	0,7	71	450
LSV28ST12-12	12000	115x7x22	1,7	80	750
LSV38ST12-125	12000	125x7x22	1,8	83	1300
LSV48SA120-13	12000	125x7x22	2,5	78	1900
LSV48SA085-18	8500	180x7x22	2,7	78	1900
LSV48SA066-23	6600	230x7x22	2,9	78	1900
LSV48SA085-18	8500	180x7x22	1,9	78	1900





# Workshop machine

## Air machines Atlas Copco

### Orbital sanders Atlas Copco

Model 5 mm	Free speed tr/min.	Base pad size	Weight kg	Height mm	Length mm
<b>No suction</b>					
LSO30 S070-3	7000	93x170	1,6	125	185
LSO30 H070-3	7000	93x170	1,7	125	285
<b>Self suction</b>					
LSO31 S070-3	7000	93x170	1,6	125	210
LSO31 H070-3	7000	93x170	1,7	125	310
<b>Central suction</b>					
LSO32 S070-3	7000	93x170	1,6	125	210
LSO32 H070-3	7000	93x170	1,8	125	310



### Orbital sanders Atlas Copco

Model 8 mm	Free speed tr/min.	Base pad size	Weight kg	Height mm	Length mm
<b>No suction</b>					
LST30 H90-11	9000	110	1,2	120	255
LST30 H90-15	9000	150	1,2	120	275
LST30 S90-15	9000	150	1,1	120	175
<b>Self suction</b>					
LST31 H90-15	9000	150	1,4	120	300
<b>Central suction</b>					
LST32 H90-15	9000	150	1,4	120	300
LST32 S90-15	9000	150	1,3	120	200



### Finishing orbital sanders Atlas Copco

Model 5 mm	Free speed tr/min.	Base pad size	Weight kg	Height mm	Length mm
<b>No suction</b>					
LST20 R550	12000	125	0,85	83	127
LST20 R650	12000	150	0,85	83	127
<b>Self suction</b>					
LST21 R550	12000	125	0,85	83	133
LST21 R650	12000	150	0,85	83	133
<b>Central suction</b>					
LST22 R550	12000	125	0,85	83	133
LST22 R650	12000	150	0,85	83	133



### Hak hammers Atlas Copco

Model	Stroke/min.	Length mm	Weight kg	Stroke Joules
<b>Straight scalers</b>				
RRC 13	4380	221	1,4	1,4
RRC 13B	4380	231	1,6	1,4
RVM 07	6000	273	1,7	
<b>Needle scaler</b>				
RRC 13N	4380	352	1,9	1,4
<b>Chipping hammers</b>				
RRC 22 F-01	3720	260	2,2	2,7
RRC 34 B-01	2700	330	4,5	5,5
RRC 65 B-01	2400	335	5,9	10,0
RRC 75 B-01	1800	390	6,5	16,0
<b>Vibration damped chipping hammers</b>				
RRF 21-01	3420	245	1,75	2,0
RRF 31-01	2280	265	2,5	4,4
RRD 37-11	2100	418	3	6,8
RRD 57-11	1850	458	3,4	9,3



### Drills Atlas Copco

Model	Free speed tr/min.	Chuck capacity	Length mm	Weight kg
LBB16 EPX-200	20000	6,5	177	0,6
LBB16 EPX-060	6000	6,5	177	0,6
LBB16 EPX-033	3300	6,5	177	0,6
LBB26 EPX-060	6000	6,5	180	0,7
LBB26 EPX -026	2600	8	180	0,8
LBB26 EXP-007	700	13	196	0,8
LBB36 H013	1300	10	256	1,6
LBB36 H007	700	13	256	1,6
LBB45 H004	400	16	360	4,3





# Workshop machine

## Compressed air accessories



### Polyamide spirally hoses

- Universal connections and spring set

<b>25204</b>	Spiral hose 5 m (polyamide)
<b>25205</b>	Spiral hose 7,5 m (polyamide)
<b>25206</b>	Spiral hose 10 m (polyamide)



### Polyurethane spirally hoses

- High quality spiral polyurethane hoses (PU)
- Provided with 2 right ends (2x 1/4 " external thread)
- Even folded twice, the conduit does not break

<b>28138</b>	Spiral hose 4 m (PU-Hose) (8 x 5 mm)
<b>28140</b>	Spiral hose 8 m (PU-Hose) (10 x 6,5 mm)
<b>28145</b>	Spiral hose 8 m (PU-Hose) (12 x 8 mm)



### Rubber hose

- High quality rubber hose
- Universal coupling including
- Flexible rest in any circumstances

<b>25210</b>	Rubber hose 10 m
<b>25215</b>	Rubber hose 15 m
<b>25220</b>	Rubber hose 20 m



### Polyurethane hose

- High quality polyurethane hose
- Light and flexible with universal couplings
- Light and flexible
- Working temperature (-20°C/+70°C)

<b>25290</b>	PU-Hose 10 m (12 x 8 mm)
<b>25291</b>	PU-Hose 15 m (12 x 8 mm)
<b>25292</b>	PU-Hose 20 m (12 x 8 mm)
<b>25294</b>	PU-Hose 10 m (16 x 11 mm)



### Roll of polyurethane hose

- High quality hose
- Light and flexible
- Working temperature (-20°C/+70°C)

<b>25295</b>	PU-Hose roll 50 m (12 x 8 mm)
<b>25297</b>	PU-Hose roll 50 m (16 x 11 mm)

# Workshop machine

## Compressed air accessories



### Hose reels

- Floor hose reel (rotation 360°)
- High quality polyurethane hose
- Swivel joint and protection of crease is provided with the standard model
- Working temperature (-20°C/+70°C)

**25222**

Reel 30 m (12 x 8 mm)



### Wall mounting hose reels

- High quality polyurethane hose in steel case
- Rotating wall fixation
- Automatic return spring (can be locked)
- Coupling : 2 x 1/4" external thread
- Working temperature (-20°C/+70°C)

**25223**

Wall reel 10 m (PU-Hose) (12 x 8mm)

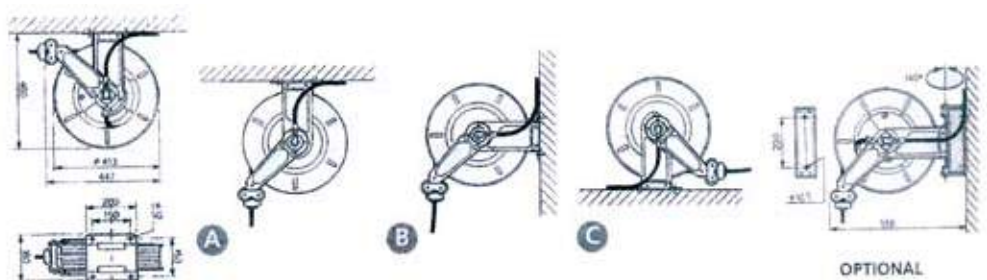
**25226**

Wall reel 12 m (PU-Hose) (12 x 8mm)

**25227**

Wall reel 15 m (PU-Hose) (12 x 8mm)

### Wall mounting hose reels (opening model)



- Industriel reel (opening model)
- Provided with a protection back and with slow motion.
- The opened building, painted in powder, makes easier the replacement of the conduit of compressed air and with control during winding.
- 3 mounting possibilities (ceiling-wall-ground)
- Option : wall rotating adaptor

		Inside ø	Length	Coupling	Max. pressure
<b>26115</b>	VL-1025	10	25	3/8"	18 bar
<b>26125</b>	VL-1320	13	20	1/2"	18 bar
<b>26155</b>	Wall rotating adaptor	-	-	-	-

# Workshop machine

## Compressed air accessories



### Male nipples with external thread

28516	Quick action coupling, male with 1/4" external thread
28518	Quick action coupling, male with 3/8" external thread



### Male nipples with internal thread

28520	Quick action coupling, male with 1/4" internal thread
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### Male hose connections

28524	Quick action male hose connection with rotating hose nipple ø 6 mm
28522	Quick action male hose connection with rotating hose nipple ø 8 mm
28523	Quick action male hose connection with rotating hose nipple ø 10 mm



### Hose connector

28526	Rotating hose nipple ø 6 mm external thread 1/4"
28528	Rotating hose nipple ø 8 mm external thread 1/4"
28530	Rotating hose nipple ø 8 mm external thread 3/8"
28529	Rotating hose nipple ø 10 mm external thread 3/8"



### Extension nipple

28536	Rotating hose nipple 8 mm x 8 mm
28537	Rotating hose nipple 10 mm x 10 mm



### Y-branches

28500	Y-branch-with 3 x 3/8" internal thread
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### Double-ended nipples

28532	Double nipples 1/4" - 1/4"
28533	Double nipples 3/8" - 3/8"
28534	Double nipples 1/2" - 1/2"



### Reducing nipples

28538	Reducing nipples 1/8" - 1/4" external thread
28540	Reducing nipples 1/4" - 3/8" external thread
28542	Reducing nipples 3/8" - 1/2" external thread



### Reducing nipples

28544	Reducing nipples 3/8" int. - 1/4" ext.
28546	Reducing nipples 1/2" int. - 3/8" ext.
28548	Reducing nipples 1/2" int. - 1/4" ext.

# Workshop machine

## Compressed air accessories



### Quick action couplings with external thread

<b>28508</b>	Coupling with 1/4" external thread
<b>28510</b>	Coupling with 3/8" external thread
<b>28512</b>	Coupling with 1/2" external thread



### Quick action couplings with internal thread

<b>28504</b>	Coupling with 1/4" internal thread
<b>28506</b>	Coupling with 3/8" internal thread



### Quick action coupling with hose connection

<b>28514</b>	Coupling with hose connection 8 mm
<b>28515</b>	Coupling with hose connection 10 mm



### Y-branche

<b>28502</b>	Y-branche with 2 quick action couplings (3/8" internal thread)
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### Safety nipples with external thread

- High quality safety nipples (max. 20 bar)
- Estrangement of the pneumatic tool without pressure

<b>28115</b>	Safety nipples with 1/4" external thread
<b>28120</b>	Safety nipples with 3/8" external thread
<b>28132</b>	Safety nipples with 1/2" external thread



### Safety nipple with internal thread

- High quality safety nipples (max. 20 bar)
- Estrangement of the pneumatic tool without pressure

<b>28125</b>	Safety nipples with 1/4" internal thread
<b>28130</b>	Safety nipples with 3/8" internal thread

# Workshop machine

## Compressed air accessories



### High quality safety nipples rotating hose nipple

- High quality safety nipples
- Estrangement of the pneumatic tool without pressure

**28135**

 Connection with hose connection  $\varnothing$  8 mm


### Y-branch with 2 quick action couplings

- High quality safety nipples
- Estrangement of the pneumatic tool without pressure

**28503**

Y-branch with 2 quick action couplings (3/8" internal thread)



### Quick action coupling for high working pressure (ext. thread)

- High quality coupling
- The best for high working pressure

**28560**

Coupling 3/8" external thread

**28562**

Coupling 1/2" external thread



### Quick action coupling for high working pressure (int. thread)

- High quality coupling
- The best for high working pressure

**28566**

Coupling 3/8" internal thread

**28568**

Coupling 1/2" internal thread



### Quick action coupling for high working pressure (hose connection)

- High quality coupling
- The best for high working pressure

**28570**

Coupling with 9 mm connection hose nipple

**28572**

Coupling with 13 mm connection hose nipple



### Coupling for high working pressure (ext. thread)

**28574**

Male coupling 3/8" external

**28576**

Male coupling 1/2" external

# Workshop machine

## Compressed air accessories



### Coupling for high working pressure (int. thread)

28578	Male coupling 3/8" internal thread
28580	Male coupling 1/2" internal thread



### Coupling for high working pressure (hose connection)

28582	Male coupling with hose connection 9 mm
28584	Male coupling with hose connection 13 mm



### Hose clips

25321	Clips min. 11 mm - max. 13 mm (10 pieces)
25322	Clips min. 13 mm - max. 15 mm (10 pieces)
25323	Clips min. 15 mm - max. 18 mm (10 pieces)



### Ball valve

25326	Ball valve 1/4" internal thread
25327	Ball valve 3/8" internal thread
25328	Ball valve 1/2" internal thread



### Oil for compressor and air compresset tools

25231	Oil for compressor 1L
25232	Oil for compressor 5L
25233	Oil for compressor to vis 5L
28900	Oil for the pneumatic machines 1L



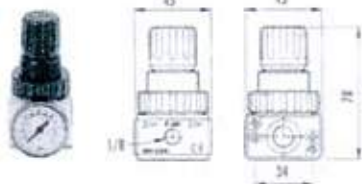
### Mist lubricator

25673	Lubricator 1/4"
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# Workshop machine

## Compressed air accessories

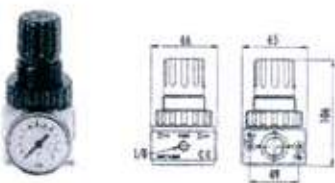


### Regulator 1/4" internal thread

- Max. primary pressure : 12 bars
- Standard pressure range 0-10 bars
- Max. capacity at 6 bars : 1700 l/min.
- Filter capacity : 10 Microns

**28708**

Regulator with 1/4" internal thread

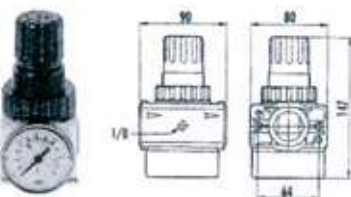


### Regulator 1/2" internal thread

- Max. primary pressure : 14 bars
- Standard pressure range 0-12 bars
- Max. capacity at 6 bars : 5000 l/min.
- Filter capacity : 10 Microns

**28709**

Regulator with 1/2" internal thread

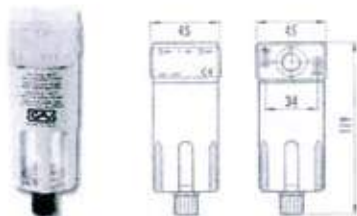


### Regulator 1" internal thread

- Max. primary pressure : 16 bars
- Standard pressure range 0-12 bars
- Max. capacity at 6 bars : 6000 l/min.
- Filter capacity : 10 Microns

**28711**

Regulator with 1" internal thread

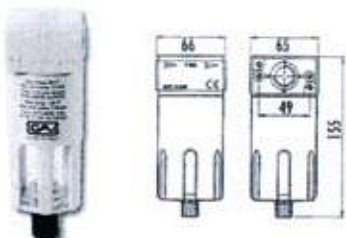


### Conditionning unit 1/4" internal thread

- Max. primary pressure : 12 bars
- Standard pressure range 0-10 bars
- Max. capacity at 6 bars : 1700 l/min.
- Filter capacity : 10 Microns

**28720**

Conditionning unit with 1/4" internal thread

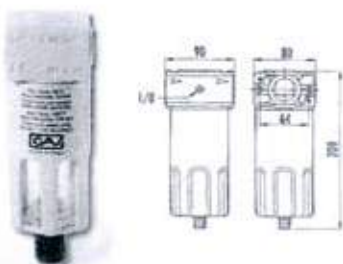


### Conditionning unit 1/2" internal thread

- Max. primary pressure : 14 bars
- Standard pressure range 0-12 bars
- Max. capacity at 6 bars : 5000 l/min.
- Filter capacity : 10 Microns

**28722**

Conditionning unit with 1/2" internal thread



### Conditionning unit 1" internal thread

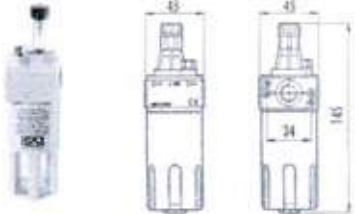
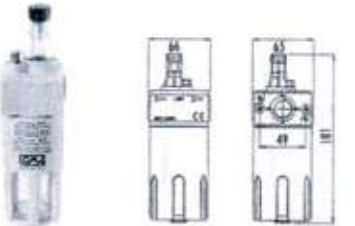
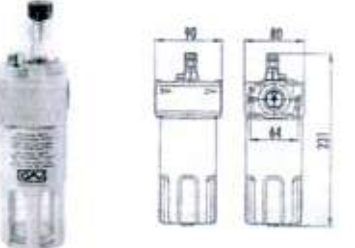
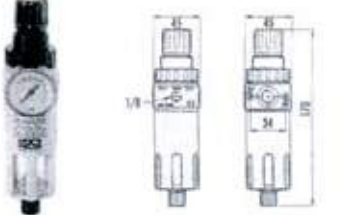
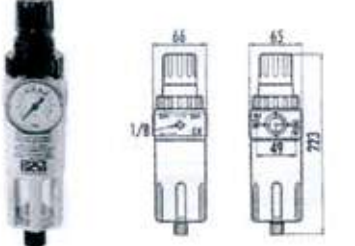
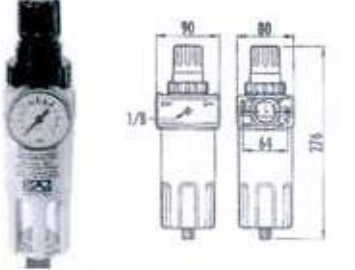
- Max. primary pressure : 16 bars
- Standard pressure range 0-12 bars
- Max. capacity at 6 bars : 6000 l/min.
- Filter capacity : 10 Microns

**28724**

Conditionning unit with 1" internal thread

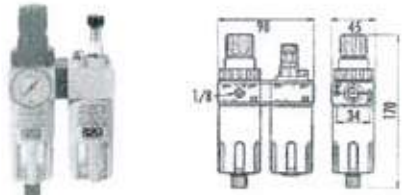
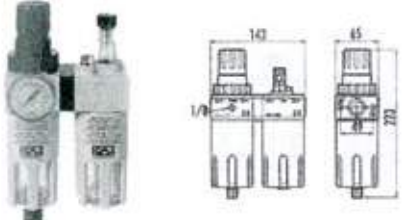
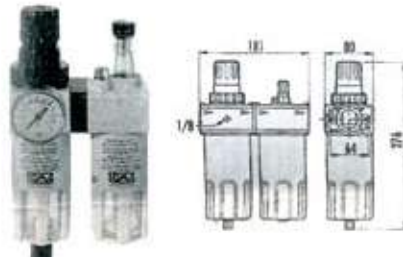
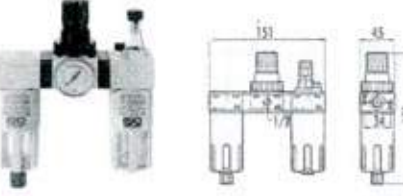
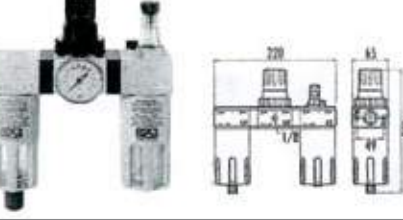
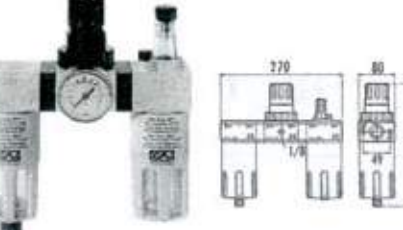
# Workshop machine

## Compressed air accessories

	<b>Lubricator with 1/4" internal thread</b> <ul style="list-style-type: none"> <li>• Max. primary pressure : 12 bars</li> <li>• Standard pressure range 0-10 bars</li> <li>• Max. capacity at 6 bars : 1700 l/min.</li> <li>• Filter capacity : 10 Microns</li> </ul> <b>28710</b> Lubricator with 1/4" internal thread
	<b>Lubricator with 1/2" internal thread</b> <ul style="list-style-type: none"> <li>• Max. primary pressure : 14 bars</li> <li>• Standard pressure range 0-12 bars</li> <li>• Max. capacity at 6 bars : 5000 l/min.</li> <li>• Filter capacity : 10 Microns</li> </ul> <b>28712</b> Lubricator with 1/2" internal thread
	<b>Lubricator with 1" internal thread</b> <ul style="list-style-type: none"> <li>• Max. primary pressure : 16 bars</li> <li>• Standard pressure range 0-12 bars</li> <li>• Max. capacity at 6 bars : 6000 l/min.</li> <li>• Filter capacity : 10 Microns</li> </ul> <b>28714</b> Lubricator with 1" internal thread
	<b>Pressure regulator with conditioning unit 1/4" internal thread</b> <ul style="list-style-type: none"> <li>• Max. primary pressure : 12 bars</li> <li>• Standard pressure range 0-10 bars</li> <li>• Max. capacity at 6 bars : 1700 l/min.</li> <li>• Filter capacity : 10 Microns</li> </ul> <b>28704</b> Regulator with conditioning unit 1/4" internal thread
	<b>Pressure regulator with conditioning unit 1/2" internal thread</b> <ul style="list-style-type: none"> <li>• Max. primary pressure : 14 bars</li> <li>• Standard pressure range 0-12 bars</li> <li>• Max. capacity at 6 bars : 5000 l/min.</li> <li>• Filter capacity : 10 Microns</li> </ul> <b>28706</b> Regulator with conditioning unit 1/2" internal thread
	<b>Pressure regulator with conditioning unit 1" internal thread</b> <ul style="list-style-type: none"> <li>• Max. primary pressure : 16 bars</li> <li>• Standard pressure range 0-12 bars</li> <li>• Max. capacity at 6 bars : 6000 l/min.</li> <li>• Filter capacity : 10 Microns</li> </ul> <b>28703</b> Regulator with conditioning unit 1" internal thread

# Workshop machine

## Compressed air accessories

	<b>Pressure regulator with conditioning unit and lubricator 1/4"</b> <ul style="list-style-type: none"> <li>• Max. primary pressure : 12 bars</li> <li>• Standard pressure range 0-10 bars</li> <li>• Max. capacity at 6 bars : 1700 l/min.</li> <li>• Filter capacity : 10 Microns</li> </ul> <div> <b>28700</b> Regulator with conditioning unit and lubricator 1/4" internal thread. </div>
	<b>Pressure regulator with conditioning unit and lubricator 1/2"</b> <ul style="list-style-type: none"> <li>• Max. primary pressure : 14 bars</li> <li>• Standard pressure range 0-12 bars</li> <li>• Max. capacity at 6 bars : 5000 l/min.</li> <li>• Filter capacity : 10 Microns</li> </ul> <div> <b>28702</b> Regulator with conditioning unit and lubricator 1/2" internal thread. </div>
	<b>Pressure regulator with conditioning unit and lubricator 1"</b> <ul style="list-style-type: none"> <li>• Max. primary pressure : 16 bars</li> <li>• Standard pressure range 0-12 bars</li> <li>• Max. capacity at 6 bars : 6000 l/min.</li> <li>• Filter capacity : 10 Microns</li> </ul> <div> <b>28701</b> Regulator with conditioning unit and lubricator 1" internal thread. </div>
	<b>Conditioning unit group 1/4" internal thread</b> <ul style="list-style-type: none"> <li>• Max. primary pressure : 12 bars</li> <li>• Standard pressure range 0-10 bars</li> <li>• Max. capacity at 6 bars : 1700 l/min.</li> <li>• Filter capacity : 10 Microns</li> </ul> <div> <b>28730</b> Included : conditioning unit regulator and lubricator with 1/4" internal thread </div>
	<b>Conditioning unit group 1/2" internal thread</b> <ul style="list-style-type: none"> <li>• Max. primary pressure : 14 bars</li> <li>• Standard pressure range 0-12 bars</li> <li>• Max. capacity at 6 bars : 5000 l/min.</li> <li>• Filter capacity : 10 Microns</li> </ul> <div> <b>28732</b> Included : conditioning unit regulator and lubricator with 1/4" internal thread </div>
	<b>Conditioning unit group 1" internal thread</b> <ul style="list-style-type: none"> <li>• Max. primary pressure : 16 bars</li> <li>• Standard pressure range 0-12 bars</li> <li>• Max. capacity at 6 bars : 6000 l/min.</li> <li>• Filter capacity : 10 Microns</li> </ul> <div> <b>28734</b> Included : conditioning unit regulator and lubricator with 1/4" internal thread </div>

# Workshop machine

## Compressed air accessories



### Air filters with universal couplings

- Max. primary pressure : 12 bars
- Max. capacity at 6 bars : 1700 l/min.
- Reductor to be mounted on

**25676** Regulator with 1/4" internal thread

- Max. primary pressure : 12 bars
- Max. capacity at 6 bars : 1800 l/min.
- Reductor to be mounted on tank

**25670** Regulator with 3/8" external thread

- Max. primary pressure : 12 bars
- Max. capacity at 6 bars : 1800 l/min.
- Reductor to be mounted on tank

**25672** Regulator with 1/2" external thread



### Manometer

- Max. pressure : 12 bars

**25520** Manometer with 1/8" axial connection

**25521** Manometer with 1/4" axial connection

- Manometer (rated)
- Max. pressure : 10 bar

**25525** Manometer (rated) with 1/4" axial connection

- Manometer (rated)
- Max. pressure 10 bar

**25527** Manometer (rated) with 1/4" radial connection



### Drainage unit

**25510** Pressiostat 230 V - 1-connection

**25500** Pressiostat 230 V - 4-connections

### Max. thermic protection

**25511** Pressiostat 3 x 400 V - 10 Amp.

**25512** Pressiostat 3 x 400 V - 16 Amp.

**25514** Pressiostat 3 x 400 V - 20 Amp.








### Air trap

**25735** Air trap connection 1/4"

**25730** Air trap connection 3/8"

# Workshop machine








## Compressed air accessories

	<b>Air pump nozzle with pressure gauge</b>
	<ul style="list-style-type: none"> <li>• For tires</li> <li>• Manometer : dia 63 mm</li> <li>• Hose : 36 cm</li> </ul>
	<b>28600</b> Air pump nozzle
	<ul style="list-style-type: none"> <li>• For tires</li> <li>• Manometer : dia 63 mm</li> <li>• Hose : 36 cm</li> <li>• With leaf</li> </ul>
	<b>28603</b> Air pump nozzle for trucks
	<ul style="list-style-type: none"> <li>• For tires</li> <li>• Manometer (rated) : dia. 80 mm (CEE N°86/217)</li> <li>• Hose : 1 m</li> </ul>
	<b>28602</b> Professional air pump nozzle
	<ul style="list-style-type: none"> <li>• For tires</li> <li>• Manometer (rated) : dia. 80 mm (CEE N°86/217)</li> <li>• Hose : 1 m</li> <li>• Leaf with manche</li> </ul>
	<b>28101</b> Professional air pump nozzle for trucks
	<b>Short air gun</b>
	<ul style="list-style-type: none"> <li>• Air consumption max at 6 bars : 200 l/min.</li> </ul>
	<b>28606</b> Short air gun
	<b>Long air gun</b>
	<ul style="list-style-type: none"> <li>• Air consumption max at 6 bars : 200 l/min.</li> </ul>
	<b>28608</b> Long air gun
	<b>Professionnel air gun</b>
	<ul style="list-style-type: none"> <li>• Professionnel air gun</li> <li>• Regulating of the compressed air without echelons</li> <li>• Air consumption at 6 bars : 270 l/min.</li> <li>• With «Silencer» (reduced noise to 30%)</li> </ul>
	<b>28611</b> Air gun with silencer and extension
	<b>Professionnel air gun with silencer and leaf</b>
	<ul style="list-style-type: none"> <li>• Professionnel air gun</li> <li>• Compressed air accessories setting</li> <li>• Air consumption under load max. to 6 bars : 270 l/min.</li> <li>• With extension</li> <li>• With «Silencer» (reduced noise to 30%)</li> </ul>
	<b>28613</b> Professionnel air gun with silencer and leaf



# Workshop machine

## Compressed air accessories

	<b>Oil mist spray gun</b> <ul style="list-style-type: none"> <li>• For air liquid</li> </ul> <b>28614</b> Spray gun with paint container 1L
	<b>Spray gun with «GARDENA» coupling</b> <ul style="list-style-type: none"> <li>• For cleaning</li> <li>• Setting of air and water quantity</li> </ul> <b>28607</b> Spray gun with «Gardena» coupling
	<b>Combined sand blasting gun with suction hose 2 m</b> <ul style="list-style-type: none"> <li>• 2m suction hose</li> <li>• Air consumption : 250-300 l/min.</li> <li>• Pressure : 6-8 bars</li> </ul> <b>28617</b> Sand blasting gun (with suction hose 2 m) <b>28618</b> nozzle
	<b>Sand blasting gun</b> <ul style="list-style-type: none"> <li>• Sand blasting gun with container</li> <li>• Nozzle</li> </ul> <b>28616</b> Sand blasting gun with container <b>28618</b> Nozzle
	<b>Paint spray gun with container 1000 ml</b> <ul style="list-style-type: none"> <li>• Pressure : 4-8 bars</li> <li>• Air consumption : 100-200 l/min.</li> <li>• Nozzle : 1,5</li> <li>• Adjustable spray</li> </ul> <b>28624</b> Paint spray gun with container 1000 ml
	<b>Professional paint spray gun with container 600 ml</b> <ul style="list-style-type: none"> <li>• Pressure : 4-8 bars</li> <li>• Air consumption : 100-200 l/min.</li> <li>• Nozzle : 1,5</li> <li>• Adjustable spray</li> </ul> <b>28625</b> Professional paint spray gun with container 600 ml
	<b>Professional paint spray gun with container 1000 ml</b> <ul style="list-style-type: none"> <li>• Pressure : 4-8 bars</li> <li>• Air consumption under load : 150-250 l/min.</li> <li>• Nozzle : 1,5</li> <li>• Quantity of painting and adaptable air</li> <li>• Adjustable spray</li> </ul> <b>28626</b> Professional paint spray gun with container 1000 ml



# Workshop machine

## Wet and dry vacuum cleaner

### NEVADA 200



#### Dry

Model	Two stage motor thru flow W	volt	Waterlift mm	Air flow m³/h	Total tank capacity l	dbA (DIN 45635) 1m / 2m
202	1000 max	220-240	1800	140	24	71/65
202 Small	1000 max	220-240	1800	140	18	71/65
203	1150 max	220-240	2200	180	24	72/66
203 Small	1150 max	220-240	2200	180	18	72/66

Standard accessories : 1685 (1685G)-6240 (2pcs)-6158-616-617-632-4

### NEVADA 200



#### Wet and dry

Model	Two stage motor by pass W	volt	Waterlift mm	Air flow m³/h	Total tank capacity l
215	1200 max	220-240	2200	170	24
215 Small	1200 max	220-240	2200	170	18

Standard accessories : 1685 (1685G)-6240 (2pcs)-616-6158-617-632-4-2720

Optionally 2852-2855

### NEVADA 500



#### Wet and dry

Model	Two stage motor by pass W	volt	Waterlift mm	Air flow m³/h	Total tank capacity l
515	1200 max	220-240	2200	170	32
503	1400 max	220-240	2400	215	32

Standard accessories : 6295-6388-3-8-6387 (2pcs)-6389-6384-6385

Optionally 2852-2855-6386

### NEVADA 600/400



NEVADA 600

NEVADA 400

#### Wet and dry

Model	Two stage motor by pass W	volt	Waterlift mm	Air flow m³/h	Total tank capacity l
615-415	1200 max	220-240	2200	170	78-63
603-403	1400 max	220-240	2400	215	78-63
629-429	2400 max	220-240	2200	340	78-63
623-423	2600 max	220-240	2400	4307	78-63
640-440	3300 max	220-240	2200	510	78-63
633-433	3500 max	220-240	2400	640	78-63

Standard accessories : 6295-6388-3-8-6387 (2pcs)-6389-6384-6385

Optionally 2852-2855-6386-41-42-3200



#### ACCESSORIES

# Workshop machine

## Polishers

EL 430  
EL 430-2



Model	Working width	Type	Power source	Electric cable length	Motor	Rotation	Floor pressure
EL 430	430 mm	Low speed	230 V	12 m	1200 W	165 rpm	30 g/cm <sup>2</sup>
EL 430-2	430 mm	Low / high speed	230 V	12 m	1300/1600 W	165/330 rpm	40 g/cm <sup>2</sup>

## Wet & dry vacuum cleaners

EUROPA  
115



EUROPA 115  
SPOT W



EUROPA  
429 W



EUROPA  
440 B W



Model	Motors - capacity	Voltage	Container	Depression	Air flow	ø. accessories	Hose	Filter
EUROPA 115	1 x 1500 W	230 V	27 L	2180 mm	205 m <sup>3</sup> /h	36 mm	2,5 m	Polyester
EUROPA 115 SPOT W	1 x 1500 W	230 V	35 L	2180 mm	205 m <sup>3</sup> /h	40 mm	2,5 m	W - 5 micron
EUROPA 429 W	2 x 1400 W	230 V	63 L	2180 mm	410 m <sup>3</sup> /h	40 mm	2,5 m	W - 5 micron
EUROPA 440 B W	3 x 1500 W	230 V	63 L tiltable	2180 mm	615 m <sup>3</sup> /h	40 mm	2,5 m	W - 5 micron

# Workshop machine

## Cold water high pressure cleaners



**ONE AF**  
- DS 1806 M  
- DS 1801 M  
- DS 1900 M



- G160 X OT  
- GX 150 POWER  
- GX 160 POWER



**EVOLUTION 3**  
- 1910 M  
- 1910 M PLUS  
- 2660 T  
- 2660 T PLUS



**EVOLUTION 5**  
- 2980 T  
- 3670 T

Model	Pump pressure bar	Water flow L/hour	Inlet temp. °C	Voltage	Power Watt	Pistons	Pump	Hose	Hose reel	Turbo lance	Detergent tank
DS 1806 M	130	360	60	230	2100	SS	Alu	7 m	Option	Yes	1 x 0.5 L
DS 1801 M	130	410	60	230	2400	SS	Alu	7 m	Option	Yes	2 x 0.5 L
DS 1900 M	140	450	60	230	2400	SS	Alu	7 m	Option	Yes	2 x 1 L
G160 X OT	160	600	60	230	3000	SS	Brass	12 m	Yes	Yes	2 x 1.5 L
G150X POWER	150	600	60	230	3000	Ceramic	Brass	12 m	Yes	Yes	2 x 1.5 L
G190X POWER	18	700	60	3x400	5500	Ceramic	Brass	12 m	Yes	Yes	2 x 1.5 L
EV3 1910 M	130	600	60	230	3000	Ceramic	Brass	10 m	No	No	15 L
EV3 1910 M Plus	130	600	60	230	3000	Ceramic	Brass	15 m	Yes	Yes	15 L
EV3 2660 T	190	900	60	3x400	5800	Ceramic	Brass	10 m	No	No	15 L
EV3 2660 T Plus	190	900	60	3x400	5800	Ceramic	Brass	15 m	Yes	Yes	15 L
EV5 2980 T	200	1260	60	3x400 1400T	9500	Ceramic	Brass	15 m	Yes	No	25 L
EV5 3670 T	250	1000	60	3x400 1400T	9500	Ceramic	Brass	15 m	Yes	No	25 L

# Workshop machine

## Cold water high pressure cleaners Petrol



**BENZ 6.5 HP**



**BENZ 13 HP**

Model	Pump pressure bar	Water flow L/hour	Inlet temp. °C	Voltage	Power Watt	Pistons	Pump	Hose	Hose reel	Turbo lance	Detergent tank
BENZ 6.5 HP	180	700	50	-	6.5	Ceramic	Brass	15 m	-	-	-
BENZ 13 HP	250	950	50	-	13 1400T	Ceramic	Brass	15 m	-	-	-

## Hot water high pressure cleaners

**CHALLENGE DS 138 M**

**SYNC PLUS DS 2965 T**

**HPS 1921 T**



Model	Pump pressure bar	Water flow L/hour	Inlet temp. °C	Voltage	Power Watt	Pistons	Pump	Hose	Hose reel	Lance turbo	Detergent tank
CHALLENGE DS 138M	130	500	50-140	230	3200 1400T	Ceramic	Brass	8 m	Option	No	8 L
SYNC PLUS DS 2965T	200	1000	50-140	3x400	7200 1400T	Ceramic	Brass	10 m	Option	No	25 L
HPS 1921 T	190	1260	50-140	3x400	8750 1400T	Ceramic	Brass	15 m	Yes	No	16 L



# Workshop machine

## Sweepers



**JETTKM**



**JET 460**



**JET 520**



**JET 720**



**JET 1050**

Model	Performance	Working width	Power source	Hopper capacity	Filter surface	Power
JETTKM	1500 m <sup>2</sup> /h	670 mm	Manual	30 L	-	-
JET 460	2000 m <sup>2</sup> /h	625 mm	Batt. - 1x12V	35 L	1 m <sup>2</sup>	320 W
JET 520 ET	2600 m <sup>2</sup> /h	700 mm	Batt. - 1x12V	50 L	2 m <sup>2</sup>	360 W
JET 520 ST	2600 m <sup>2</sup> /h	700 mm	Petrol motor	50 L	2 m <sup>2</sup>	290 W
JET 720 ET	3500 m <sup>2</sup> /h	900 mm	Batt. - 1x12V	65 L	2 m <sup>2</sup>	400 W
JET 720 ST	3500 m <sup>2</sup> /h	900 mm	Petrol motor	65 L	2 m <sup>2</sup>	290 W
JET 1050 E	6600 m <sup>2</sup> /h	1100 mm	Batt. - 24V	70 L	4 m <sup>2</sup>	1040 W
JET 1050 DP	6600 m <sup>2</sup> /h	1100 mm	Petrol motor	70 L	4 m <sup>2</sup>	-

# Workshop machine

## Scrubbers



**JET 40 C 45  
JET 40 B 50  
JET 40 BT 50**



**JET 100 BT 70  
JET 100 BT 85**



**JET 50 B  
JET 55 BT**

Model	Performance	Working width	Power source	Detergent /recovery tank	Brush pressure	Brush rotation
JET 40 C 45	1575 m <sup>2</sup> /h	450 mm	230 Voltage	40 L / 50 L	32 kg	160 rpm
JET 40 B 50	1750 m <sup>2</sup> /h	500 mm	Batt. - 24 Voltage	40 L / 50 L	25 kg	135 rpm
JET 40 BT 50	1750 m <sup>2</sup> /h	500 mm	Batt. - 24 Voltage traction	40 L / 50 L	25 kg	135 rpm
JET 50 B	1750 m <sup>2</sup> /h	500 mm	Batt. - 24 Voltage	50 L	44 kg	135 rpm
JET 55 BT	1890 m <sup>2</sup> /h	540 mm	Batt. - 24 Voltage traction	65 L	44 kg	135 rpm
JET 100 BT 70	3060 m <sup>2</sup> /h	680 mm	Batt. - 24 Voltage traction	65 L	75 kg	345 rpm
JET 100 BT 85	3645 m <sup>2</sup> /h	810 mm	Batt. - 24 Voltage traction	70 L	80 kg	410 rpm



# Workshop machine

## Double-end grinders

### Double-end grinders CE

SE : Grinders with grinding wheels

CE : Grinders with wheel and brush

PE : Grinders with brushes

ART.	HP	W	RPM	Brush ø mm	Wheel ø mm	CE	dimens cm
SE-1	0,5 TF	375	2800	-	150 x 20 x 16	11,2	43 x 24 x 31
SE-2	1,0 TF	750	2800	-	200 x 25 x 20	17,0	55 x 29 x 36
SE-9	0,5 MF	375	2800	-	150 x 20 x 16	11,2	43 x 24 x 31
SE-10	1,0 MF	750	2800	-	200 x 25 x 20	18,0	55 x 29 x 36



CE-1	0,5 TF	375	2800	150 bore 16	150 x 20 x 16	12,2	51 x 24 x 31
CE-2	1,0 TF	750	2800	200 bore 20	200 x 25 x 20	18,9	65 x 29 x 36
CE-9	0,5 MF	375	2800	150 bore 16	150 x 20 x 16	12,2	51 x 24 x 31
CE-10	1,0 MF	750	2800	200 bore 20	200 x 25 x 20	19,9	65 x 29 x 36



PE-1	0,5 TF	375	2800	150 bore 16	-	13,7	63 x 21 x 29
PE-2	1,0 TF	750	2800	200 bore 20	-	20,0	81 x 25 x 32
PE-9	0,5 MF	375	2800	150 bore 16	-	13,7	63 x 21 x 29
PE-10	1,0 MF	750	2800	200 bore 20	-	21,0	81 x 25 x 32



Voltage - 220 V 3-phase or 220 V single-phase or 3-phase 380 V

### Pedestal

art.	Weight kg
CVE-1	26,0
CVE-2	33,0
CVE-1	SE-1 SE-9 CE-1 CE-9 PE-1 PE-9
CVE-2	SE-2 SE-10 CE-2 CE-10 PE-2 PE-10



# Workshop machine

## Double-end grinders with aspirator and pedestal

### Double-end grinders with aspirator and pedestal CE

SEA : Grinders with wheels

CEA : Grinders with wheel and brush

PEA : Grinders with brushes

ART.	HP	W	RPM	Brush ø mm	Wheel ø mm	peso CE	dimens cm
SEA-1	0,5 TF	375	2800	-	150 x 20 x 16	43,2	80 x 71 x 130
SEA-2	1,0 TF	750	2800	-	200 x 25 x 20	57,0	80 x 71 x 130
SEA-9	0,5 MF	375	2800	-	150 x 20 x 16	43,2	80 x 71 x 130
SEA-10	1,0 MF	750	2800	-	200 x 25 x 20	58,0	80 x 71 x 130

CEA-1	0,5 TF	375	2800	150 bore 16	150 x 20 x 16	44,2	80 x 71 x 130
CEA-2	1,0 TF	750	2800	200 bore 20	200 x 25 x 20	59,2	80 x 71 x 130
CEA-9	0,5 MF	375	2800	150 bore 16	150 x 20 x 16	44,2	80 x 71 x 130
CEA10	1,0 MF	750	2800	200 bore 20	200 x 25 x 20	60,2	80 x 71 x 130

PEA-1	0,5 TF	375	2800	150 bore 16	-	45,7	80 x 71 x 130
PEA-2	1,0 TF	750	2800	200 bore 20	-	60,2	80 x 71 x 130
PEA-9	0,5 MF	375	2800	150 bore 16	-	45,7	80 x 71 x 130
PEA-10	1,0 MF	750	2800	200 bore 20	-	61,2	80 x 71 x 130

Voltage - 220 V 3-phase or 380 V 3-phase or 220 V single-phase

### Pneumatic roll polishing machines

ART.	HP	W	RPM	Preset for rollers ø mm	ø mm	CE	dimens cm
PR-2	2,0 TF	1500	1400/2800	55-70-100-120-140 x 200	34,7	51,0	107 x 29 x 41
PR-2	2,0 TF	1500	1400	55-70-100-120-140 x 200	34,7	51,0	107 x 29 x 41
PR-2	2,0 TF	1500	2800	55-70-100-120-140 x 200	34,7	51,0	107 x 29 x 41

Voltage 380 V 3-phase

### Gummi roller

ART.	ø mm
R-70	70 x 200
R-100	100 x 200
R-120	120 x 200
R-140	140 x 200

### Sleeves (per 10 pieces)

ART.	ø mm
M-70	70 x 200
M-100	100 x 200
M-120	120 x 200
M-140	140 x 200

SEA



CEA



PEA



# Workshop machine

## Grinder with graduated surface-point sharpener



### Grinder with graduated surface-point sharpener (point from $\varnothing$ 0 to $\varnothing$ 40 mm)

Type PG : Graduated surface adjustable from 0 to 45° for the sharpening of tools, hard metal tools.

Type AP : For the sharpening or helical points adjustable clearance and point angle.

Type APG : Combined machine

ART.	HP	W	RPM	Wheel $\varnothing$ mm	Wheel $\varnothing$ mm	peso CE	dimens. cm
S2-PG	1,0TF	750	2800	200 x 25 x 20	200 x 40 x 20	79,0	80 x 71 x 130
S4-PG	2,0TF	1500	1400	250 x 35 x 25	250 x 50 x 25	99,0	80 x 71 x 130
S6-PG	3,0TF	2200	1400	300 x 40 x 30	300 x 50 x 30	125,0	80 x 71 x 130
S2-AP	1,0TF	750	2800	200 x 25 x 20	200 x 40 x 20	80,0	80 x 71 x 130
S2-APG	1,0TF	750	2800	-	200 x 40 x 20	85,0	80 x 71 x 130

Voltage : 400 V 3-phase

### Drill grinding machines

Drill grinding machine DG20 with rotating speed control. Heavy duty pedestal for working without vibration. Magnet starter with urgent stop. High drill grinding capacity for jobber drill  $\varnothing$  3 to 20 mm. Speed variator-prismas for centering position-angle regulation for all type of drill.

Model	DG20	
Voltage	Voltage	230
Speed	rpm	1400-7600
Angle	°	90-150
For twist drill	mm	3-20
Motor power	W	500
Netto weight	kg.	26,7
Dimension (L x W x H)	mm	225 x 490 x 240

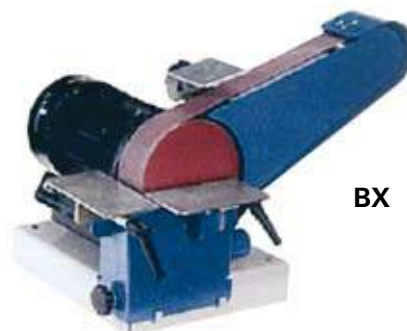


# Workshop machine

## Belt grinders



BGM



BX

### Belt grinders

Type	Volt	Motor	Belt speed	Belt dimension	Contact wheel	Grinding surface	Measures (L x W x H)	Working height	Weight
	V	kW	m/sec.	mm	mm	mm	mm	mm	kg
BGM 75	3 x 400	3,0	34	2000 x 75	200 x 75	530	1000 x 580 x 1120	475 - 1240	115
BGM 75	3 x 230	3,0	34	2000 x 75	200 x 75	530	1000 x 580 x 1120	475 - 1240	115
BGM 75/2	3 x 400	3,0	34/17	2000 x 75	200 x 75	530	1000 x 580 x 1120	475 - 1240	115
BGM 150	3 x 400	3,0	34	2000 x 150	200 x 150	530	1000 x 580 x 1120	475 - 1240	135
BGM 150	3 x 230	3,0	34	2000 x 150	200 x 150	530	1000 x 580 x 1120	475 - 1240	135
BX 10-50	3 x 400	0,55	23	1000 x 50	150 x 50	300	520 x 400 x 500	Bench	20
BX 10-50	1 x 230	0,55	23	1000 x 50	150 x 50	300	520 x 400 x 500	Bench	20



SN-4










SNA-4

### 2 belts grinders

SN-4 : without aspirator

SNA-4 : with aspirator

ART.	 HP	 W	 Voltage	 RPM	 Band mm	 CE	 dimens. cm
SN-4	2,0TF	1500	400	1400 o 2800	200 x 50	138	71 x 80 x 130
SNA-4	2,0TF	1500	400	1400 o 2800	200 x 50	148	71 x 80 x 130

00047818

### Drill sharpener










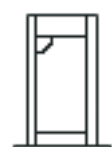
Capacity ø 2,5 to 19 mm



# Workshop machine



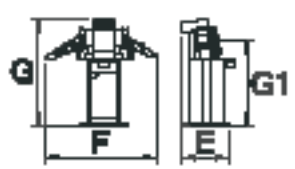





## Drill point - Grinding machine

### Drill point - Grinding machine for desk ø 3-20

						
Volt. 240/1F						
HP	Rpm	m/s	E	F	G	G1
0,5	10000	20	240	490	240	155
						
dB	Kg	ø mm	α°	ø mm		
72	20	ø3 ÷ 20	90 ÷ 150	40 x 40 x M10		
OPTIONALS						
						
WIDIA		DIAMOND				
ø mm		ø mm		Volt	W	BAS.01
ø 40 x 40 x M10		ø 40 x 40 x M10		220-12	20	



### Drill point - Grinding machine ø 5-70

								
Volt.400 Kw 1,8								
HP	Rpm	m/s	dB	E	F	G	G1	Kg
2,5	1400 2800	15 30	70	700	1350	1300	1030	130
					 OPTIONAL			
Arm A	Arm B	α°	ø mm	N°	Kw			
ø5 ÷ 35	ø35÷70	118°	ø200x40xø20	1	0,55			



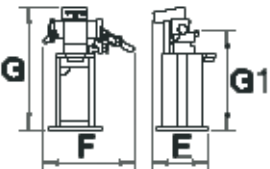









# Workshop machine

## Drill point - Grinding machine



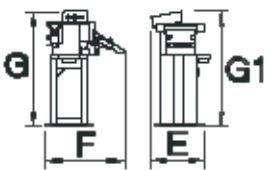


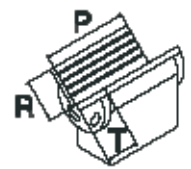





### Drill point - Grinding machine ø 5-35

								
Volt.400 Kw 1,8								
HP	Rpm	m/s	dB	E	F	G	G1	Kg
2,5	1400 2800	15 30	70	650	950	1300	1030	110

						 OPTIONAL	
Arm A	$\alpha^{\circ}$	$\varnothing$ mm		N°	$\varnothing$ mm	Kw	
$\varnothing 5 \div 35$	118°	$\varnothing 200 \times 25 \times \varnothing 20$		1	$\varnothing 200 \times 40 \times \varnothing 20$	0,55	



### Drill point - Grinding machine ø 5-35 + chamfering machine

								
Volt.400 Kw 1,8								
HP	Rpm	m/s	dB	E	F	G	G1	Kg
2,5	1400 2800	15 30	70	650	910	1300	1070	120
								
ISO SPUN.12.03.08								
ø	Z	P	R	T	Sm	J°		
80	10	500	80	100	0 ÷ 6	15 ÷ 45°		
								
						OPTIONAL		
Arm A	α°	ø mm		N°		Kw		
ø5 ÷ 35	118°	ø200x25xø20		1		0,55		

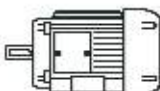

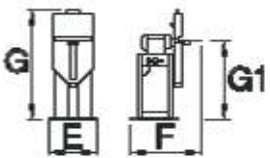

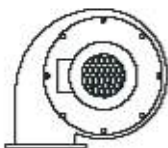
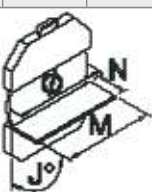




# Workshop machine



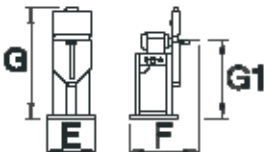

## Grinding disk-machine

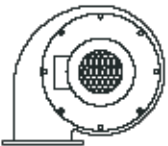
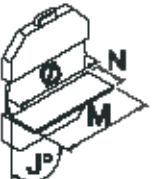
### Grinding disk-machine

								
Volt.400 Kw 1,8								
HP	Rpm	m/s	dB	E	F	G	G1	Kg
2,5	1400 2800		70	600	800	1300	920	105
								
OPTIONAL								
Kw				Ø M	N	O	J°	
0,55				400	230	450	0÷90°	



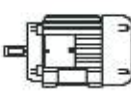
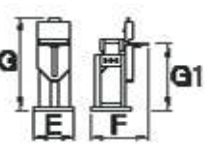




### Grinding disk-machine

								
Volt.400 Kw 3								
HP	Rpm	m/s	dB	E	F	G	G1	Kg
4	950		68	700	800	1360	900	135

					
OPTIONAL					
Kw		Ø M	N	O	J°
0,55		600	230	650	0÷90°



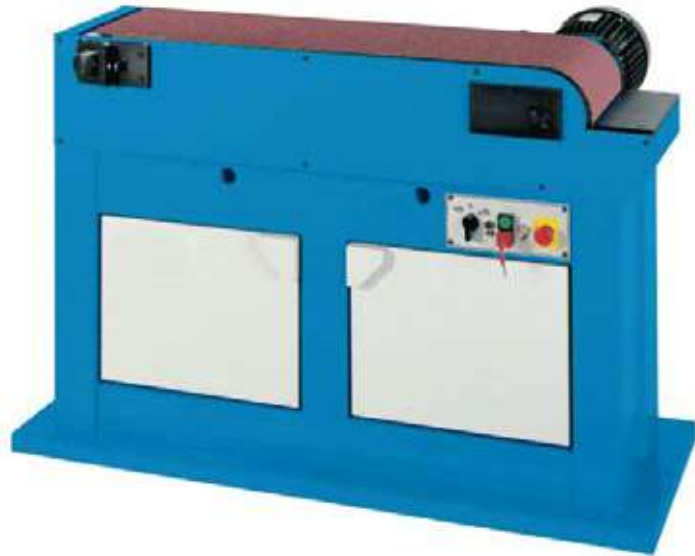
### Grinding disk-machine

													
Volt.400 Kw 4													Optional
HP	Rpm	m/s	E	F	G	G1	dB	Kg	øM	N	O	J°	ASP.01
5,5	950		1300	1000	1450	870	70	370	800	300	1000	45÷90°	Kw 1,5


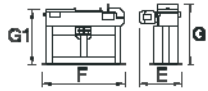


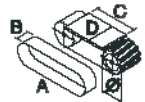



# Workshop machine

## Professional belt grinding machine


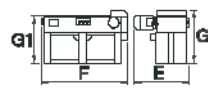


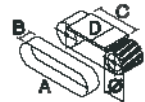



### Professional belt grinding machine

 Volt.400 Kw 4,5														 OPTIONAL
HP	Rpm	m/s	E	F	G	G1	dB	Kg	A	B	C	D	ø	ASP.01
5,5	1400 2800	15 30	720	1390	1020	900	70	290	2500	300	900	300	200	Kw 1,5



### Professional belt grinding machine


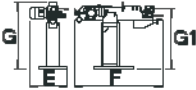


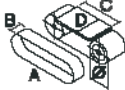

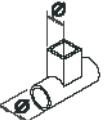
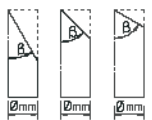
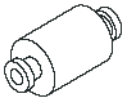


 Volt.400 Kw 5,1														 OPTIONAL
HP	Rpm	m/s	E	F	G	G1	dB	Kg	A	B	C	D	ø	ASP.01
6,5	700 1400	9 18	1100	1700	1100	890	75	500	3100	500	1000	550	250	Kw 1,5

# Workshop machine

## Pipe notcher machine


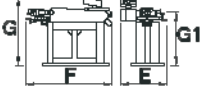


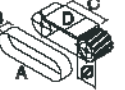

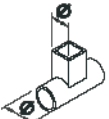
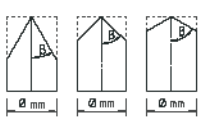
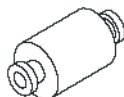



### Universal pipe notcher machine

 <b>Volt.400 Kw 3</b>													 <b>STANDARD</b>		
HP	Rpm	m/s	E	F	G	G1	dB	Kg	A	B	C	D	Ø	Ø	R
4	2800	30	650	1500	1040	960	70	125	2000	75	400	75	200	Ø1" 1/4	75
							 <b>OPTIONAL</b>			 <b>OPTIONAL</b>			 <b>OPTIONAL</b>		
V mm			Max mm x β°				Ø			Kw	Rpm	m/s	ASP.01		
Min 20 ÷ 70 Max			37x30° 52x45° 64x60°				20-1/2"-3/4"-1"-1"1/2"-2"-70			3	1400 2800	15 30	Kw 1,5		



### Professional pipe notcher machine

 <b>Volt.400 Kw 3,7</b>													 <b>STANDARD</b>		
HP	Rpm	m/s	E	F	G	G1	dB	Kg	A	B	C	D	Ø	Ø	R
5	1400 2800	15 30	780	1600	1250	950	73	240	2000	150	400	160	200	Ø3/4-Ø1"1/4 -Ø3"	160
							 <b>OPTIONAL</b>			 <b>OPTIONAL</b>			<b>ASP.01</b>		
V mm			mm x β°				Ø						ASP.01		
Min 20 ÷ 102 Max			70x30° 102x45° 102x60°				20-1/2"-1"-1"1/2"-2"-2"1/2-3"1/2						Kw 1,5		

# Workshop machine

## Vertical spindle grinding machines

### Vertical spindle grinding machines - model LF 350

Vertical spindle grinding machines with fixed table

Alimentation 380 Volts- 3 phases 50Hz

#### Technical data

Max grindable surface	155 x 360 mm
Distance between column axis and wheel axis	315 mm
Max distance between table-level and wheel	280 mm
Rapid feed per turn of andwheel	2 mm
Micrometric feed by means of the small round graduated handle	0,01 mm
Size of the cup-wheel	ø 200 x 78 x 78 mm
Dimensions of the abrasive segments	50 x 20 x 90 mm
Motor power of the wheel	(4 HP) 3 Kw
Electropump motor power	(0,08 HP) 0,06 Kw
Mass of the machine	550 Kg

#### Accessories

- Low tension (24V) motor drive
- Installation de réfrigération avec bassin et électropompe.
- Wheel and wheel holder
- Gear-cover protection
- Keys
- EEC certificate following CEE 89/392
- VBi colour RAL 5018 and 7032, bi-component



#### Option

L2	Grinding wheel ø 200 x 78 x 78 mm
L3	Wheel-holder
L5	Segments-holder
L7	No. 6 segments 50 x 20 x 90 mm
L8	Balancer
L9	Balancer crankshaft
L10	Demagnetizer
L15	Magnetic chuck 300 x 150 mm
L15S	Magnetic chuck with safety micro switch 300 x 150 mm
L16	Enclinable vice for puncles sharpening
L17	Industrial diamond, per carat
L21	Semi-automatic grinding wheel dresser without diamond
L23	Mechanical cleaner complete with motor, sheet tank and paper filter
L24	Dust extractor
L25	Chromium plate column
L26	Halogen lamp (24 V - 60 W - IP 65)
L27	Column increased of 50 mm



L 16



L 21



L 23



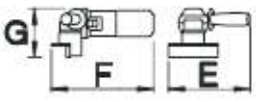


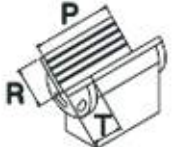



L 24

# Workshop machine





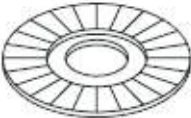
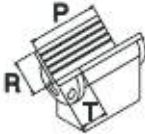

## Chamfering machine

### Portable electric chamfering machine

 Volt.240/1 Kw 0,65							 kg
HP	Rpm	m/s	dB	E	F	G	Kg
0,9	11000		68	220	300	130	2
 ISO SPMA09.03.08							
ø	Z		P	R	T	Sm	J°
30	2		130	70	30	0÷3	45°

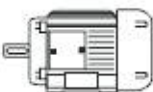

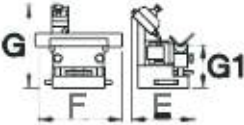




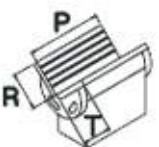

### Chamfering machine for desk

								
Volt.400 Kw 1,1								
HP	Rpm	m/s	dB	E	F	G	G1	Kg
1,5	2800		70	370	500	450	210	25
								
ø			P	R	T	Sm		J°
ø165 x ø22			500	0	120	0÷3		45°



### Chamfering machine for desk

 Volt.400 Kw 1,1								
HP	Rpm	m/s	dB	E	F	G	G1	Kg
1,5	2800		68	400	500	500	245	32

 ISO SPUN.12.03.08							
ø	Z	P	R	T	Sm	J°	
80	10	500	80	100	0÷6	15÷45°	

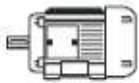

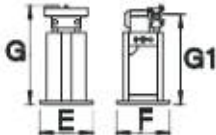




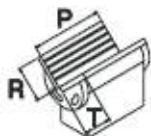



# Workshop machine

## Chamfering machine


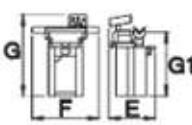




### Chamfering machine

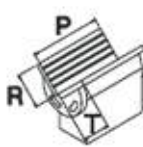
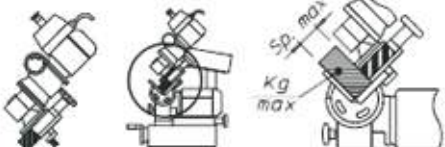

								
Volt.400 Kw 1,5								
HP	Rpm	m/s	dB	E	F	G	G	Kg
2	2800		68	600	600	1110	950	85

						
ISO SPUN.12.03.08						
ø	Z	P	R	T	Sm	J°
80	10	500	80	100	0÷6	15÷45°



### Professional chamfering machine

												
Volt.400 Kw 2,2									ISO SPUN.19.04.08 GTX			
HP	Rpm	m/s	E	F	G	G1	dB	Kg	ø	Z	Sm	J°
3	1400 2800		700	1000	1300	950	68	170	110	10	0÷8	15÷45°










			OPTIONAL - AUTOMATIC ADVANCING 						OPTIONAL 			
ISO SPUN.12.03.08												
P	R	T	Kg	Kw	Rpm	m/min	Kg max	A max	ø	Z		
1000	120	120	30	0,37	1400	1÷5	35	50	110	12 - 24		





# Workshop machine

## Cutting off machine










17002	K225			
				
90°	30	65	55 x 55	45 x 75
45°	30	60	50 x 50	40 x 60
				
<b>kW</b>	<b>Rpm/min.</b>	<b>mm</b>	<b>mm</b>	<b>Kg</b>
0,75	52°	70	225	41

220V - 1 phase

### Accessories

Blades 225 x 2 x 32 - Pitch 4 mm



17003	TE250			
				
90°	40	70	70 x 70	55 x 95
45°	35	65	60 x 60	55 x 65
				
<b>kW</b>	<b>Rpm/min.</b>	<b>mm</b>	<b>mm</b>	<b>Kg</b>
0,95 - 1,32	52 - 104	100	250	85










220 V or 380V - 3 phases

### Accessories

Blades 250 x 2 x 32 - Pitch 4 mm

Pedestal



17004	TRS275			
				
90°	45	80	80 x 80	100 x 70
45°	40	80	70 x 70	80 x 70
				
<b>kW</b>	<b>Rpm/min.</b>	<b>mm</b>	<b>mm</b>	<b>Kg</b>
1.1 - 1.5	40 x 80	105	275	98










220V or 380V - 3 phases

### Accessories

Blades 275 x 2 x 32 - Pitch 6 mm

Pedestal



	New 300			
				
90°	55	100	90 x 90	140 x 70
45°	50	90	80 x 80	70 x 85
				
<b>kW</b>	<b>Rpm/min.</b>	<b>mm</b>	<b>mm</b>	<b>Kg</b>
1,5 - 2,2	40 - 80	120	315	150

220V or 380V - 3 phases

### Accessories










Blades 3,5 x 2,5 x 32 - Pitch 6 mm

Pedestal



# Workshop machine

## Cutting off machine

17006	New 315			
				
90°	65	100	90 x 90	140 x 70
45°	60	90	80 x 80	70 x 85
				
kW	Rpm/min.	mm	mm	Kg
1,5 - 2,2	40 - 80	190	315	170










220V or 380 V - 3 phases

### Accessories

Blades 315 x 2,5 x 32 - Pitch 6 mm

Pedestal



17006001	New 350			
				
90°	60	110	100 x 100	155 x 80
45°	55	90	85 x 85	90 x 85
				
kW	Rpm/min.	mm	mm	Kg
1,8 - 2,4	40 - 80	190	350	210










220 V or 380V - 3 phases

### Accessories

Blades 350 x 2 x 32 - Pitch 6 mm

Pedestal



17007	NTM 315			
				
90°	70	100	90 x 90	135 x 80
45°	70	100	90 x 90	100 x 80
45° +	70	100	90 x 90	100 x 80
60° +	70	80	70 x 70	70 x 80
				
kW	Rpm/min.	mm	mm	Kg
1,3 - 1,8	33 - 66	160	315	270

380V - 3 phases

### Accessories










Blades 315 x 2 x 32 - Pitch 8 mm

Pneumatic vice



# Workshop machine

## Cutting off machines










17007002	NTS 315			
				
90°	70	100	90 x 90	135 x 80
45° -	70	100	90 x 90	100 x 80
45° +	70	100	90 x 90	100 x 80
60° +	70	80	70 x 70	70 x 80
				
<b>kW</b>	<b>Rpm/min.</b>	<b>mm</b>	<b>mm</b>	<b>Kg</b>
1,3 - 1,8	33 - 66	160	315	300

380 V - 3 phases

### Accessories

Blade 315 x 2 x 32 - Pitch 8 mm



17011	NTM 350			
				
90°	100	100	90 x 90	170 x 90
45° -	100	100	90 x 90	125 x 90
45° +	100	100	90 x 90	125 x 90
60° +	90	90	90 x 90	90 x 90
				
<b>kW</b>	<b>Rpm/min.</b>	<b>mm</b>	<b>mm</b>	<b>Kg</b>
1,9 - 2,5	36 x 72	185	350	450










380V - 3 phases

### Accessories

Blade 350 x 3,5 x 30

Pneumatic vice



17012	NTS 350			
				
90°	100	120	100 x 100	170 x 100
45°	100	120	100 x 100	130 x 100
				
<b>kW</b>	<b>Rpm/min.</b>	<b>mm</b>	<b>mm</b>	<b>Kg</b>
1,9 - 2,5	25 - 50	185	350	500

### Machine delivered with :

Antifraze clamp  
 Motor 1400/2800 revolutions  
 1 meter long bar support  
 Cooling system  
 1 meter long bar stop  
 Shave breaker  
 Service tools  
 Instructions manual  
 Head lowering adjustment










### Accessories upon request

Extra vice  
 Motor 700/1400 revolutions  
 3-5 meter long bar support  
 Electronic blade guard  
 Electronic piece counter  
 Vice pressure regulator  
 Blade 350 x 3,5 x 30



# Workshop machine










## Cutting off machines

	NTA 315			
				
90°	70	100	90 x 90	120 x 80
45° -	70	90	80 x 80	80 x 80
45° +	70	90	80 x 80	80 x 80
60° +	70	80	70 x 70	70 x 80
				
kW	Rpm/min.	mm	mm	Kg
1,3 - 1,8	33 - 66	120	315	550

### Technical data and standard accessories :

- Automatic share performing cuts from 0° to 45° right and 60° left and produced according to the current safety standards.
- Movable head 45° right and 60° left
- Head rotation stops 45° - 0° - 45° - 60°
- Vice complete with anti-burr device
- Feeder max. stroke 500 mm
- Motor pump for blade lubrication
- Shave breaker to keep the blade cleaned
- Adjustable stops for head vertical stroke
- Roller support arm
- Service tools
- Instruction manual and exploded view of spare parts
- Steel pedestal
- Operation :
  - Material feeding
  - Fixed vice lock
  - Rotation of the blade and delivery of the coolant, head down-feed until the finishing of the cut, feeding carriage return until the fixed measure.
  - Head return, blade revolution and coolant delivery stopping
  - Vice opening
  - Cycle repetition
- Overall dimensions : 2500 mm x 1000 mm x 2000 mm



	NTA 350			
				
90°	100	120	100 x 100	170 x 100
45°	100	120	100 x 100	130 x 100
				
kW	Rpm/min.	mm	mm	Kg
1,9 - 2,5	25 - 50	185	350	900

### Technical data and standard accessories :

- Automatic CNC hydraulic share performing cuts from 0° to 45° to the right and produced according to the current safety standards.
- The equipment is supplied with 9 programs, each of them with 99 steps for a total of about 890 cutting positions with relevant piece-counter
- Movable head 45° right and left
- Head rotation stops 45° - 0° - 45°
- Vice complete with anti-burr device
- Motor pump
- Head stops
- Shave breaker
- Vices pressure regulator
- Tempered and ground vertical slider
- Tempered and ground vice jaws
- Head lowering adjustment
- Service tools
- 1 meter long bar stop
- 1 meter long bar support
- Instruction manual and exploded view of spare parts
- Steel pedestal
- Operation :
  - Material feeding
  - Fixed vice lock
  - Rotation of the blade and delivery of the coolant, head down-feed until the finishing of the cut, feeding carriage return until the fixed measure
  - Head return, blade revolution and coolant delivery stopping
  - Vice opening
  - Cycle repetition
- Stroke feeder material mm 6000
- Overall dimensions : 3500 mm x 1200 mm x 1900 mm












### Accessories upon request :

- Extra vice
- 3-5 meter long bar support
- Electric motor 12 - 25 RPM 1,5 - 2,2 kW

# Workshop machine

## Cutting off machine with abrasive disc

17009	TV 300			
				
90°	35	100	90 x 90	140 x 80
45°	35	90	80 x 80	100 x 70
				
<b>kW</b>	<b>Rpm/min.</b>	<b>mm</b>	<b>mm</b>	<b>Kg</b>
4	5400	190	300	115










220 V - 1 phase ou 380 V - 3 phases

### Accessories

Abrasive disc 300 x 3,5 x 22,2

Pedestal



17010	TV 350			
				
90°	45	120	108 x 108	140 x 90
45°	40	105	95 x 95	100 x 90
				
<b>kW</b>	<b>Rpm/min.</b>	<b>mm</b>	<b>mm</b>	<b>Kg</b>
5,5	4300	190	350	145

380 V - 3 phases










### Accessories

Abrasive disc 350 x 3,5 x 30

Pedestal

Quick locking vice



17008	TA 400 for aluminium			
				
90°	60	140	110 x 110	180 x 100
45°	60	130	100 x 100	150 x 100
				
<b>kW</b>	<b>Rpm/min.</b>	<b>mm</b>	<b>mm</b>	<b>Kg</b>
2,2	3000	220	400	160

380 V - 3 phases

### Accessories

Blade 400 x 3,5 x 32 - 94 teeth

Carbide

Pneumatic vice

Pedestal







# Workshop machine

## Hacksaw machines





### SG 150G

Description	S 150 G
Capacity Ø 	150
Capacity 	180 x 130
Capacity 45°	100 x 130
Blade	300 x 25 x 1,2
Speed TM	125 - 200
Speed m/min.	20 - 32
Motor	0,5
Weight	92
Dimensions	750 x 470
Height	660





### VHX 210 - 260 - 320

VHX 210 - 210 - 200 - 210 x 160 - 100 - 100 x 100 - 350 x 32 x 1,5 -  
58 x 81 x 109 - 12-17-28 - 325 - 1,1 - 0,13-0,10 - 250 - 1300 x 450 x 910

Description		VHX 260	VHX 320	VHX 210
Capacity Ø	mm	260	320	210
Capacity 	mm	230	300	200
Capacity l x h 	mm	250x200 - 260x110 220 x 260	320x240 - 340x130 260 x 320	200 x 180
Capacity 45°  Ø	mm	135	190	120
Capacity 45° 	mm	130 x 150	190 x 200	190 x 200
Blade	mm	400 x 40 x 2	500 x 40 x 2	350 x 32 x 1,5
Speed	c/min.	58 - 81 - 129	58 - 81 - 129	58 - 81 - 109
Speed	m/min.	12 - 17 - 28	14 - 20 - 32	12 - 17 - 28
Vice opening	mm	325	420	325
Motor	Ch/kW	2 - 1,5	2,5 - 1,8	1,1
Motor (pump)	Ch/kW	0,13 - 0,10	0,13 - 0,10	0,13 - 0,10
Weight	kg	250	310	250
Dimensions (L x w x h)	mm	1300 x 450 x 910	1500 x 580 x 960	1300x450x910



### THX 450-550

Description		THX 450
Capacity Ø	mm	450
Capacity 	mm	370 x 370
Capacity l x h 	mm	430 x 370
Capacity 45°	mm	265 x 420
Blade	mm	650 x 50 x 2,5
Speed	c/min.	68 - 90 - 118
Motor	Ch/kW	2,2
Vice opening	mm	535
Weight	kg	600
Dimensions (L x w x h)	mm	1850 x 1030 x 1100





# Workshop machine

## Vertical bandsaw






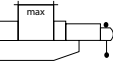




### Technical datas - Model with speeds variator

		Mod. S-400-V	Mod. S-600-V	Mod. S-100 V
Wheels Ø	mm	400	400 et 300	400 et 300
	inch	15 <sup>3</sup> / <sub>4</sub>	15 <sup>3</sup> / <sub>4</sub> "	11 <sup>9</sup> / <sub>11</sub> "
Vertical cut	mm	320	320	320
	inch	12 <sup>19</sup> / <sub>32</sub>	12 <sup>19</sup> / <sub>32</sub>	12 <sup>19</sup> / <sub>32</sub>
Horizontal cut	mm	390	600	1000
	inch	14 <sup>31</sup> / <sub>84</sub>	25 <sup>9</sup> / <sub>16</sub>	39 <sup>3</sup> / <sub>8</sub>
Table dimensions	mm	620 x 620	620 x 620	620 x 620
	inch	24 <sup>13</sup> / <sub>32</sub> " x 24 <sup>13</sup> / <sub>32</sub> "	24 <sup>13</sup> / <sub>32</sub> " x 24 <sup>13</sup> / <sub>32</sub> "	24 <sup>13</sup> / <sub>32</sub> " x 24 <sup>13</sup> / <sub>32</sub> "
Table angle, right-left		15°	15°	15°
Table angle, back-front		15°	15°	15°
Max. length blade	mm	3.380	3.755	4.600
	inch	131 <sup>1</sup> / <sub>2</sub>	151 <sup>9</sup> / <sub>18</sub>	179 <sup>1</sup> / <sub>8</sub>
Blade length	mm	3.250	3.655	4.500
	inch	123 <sup>5</sup> / <sub>8</sub>	147 <sup>1</sup> / <sub>4</sub>	174 <sup>13</sup> / <sub>16</sub>
Blade width	mm	4 to 12	4 to 12	4 to 12
	inch	0,15" to 0,47"	0,15" to 0,47"	0,15" to 0,47"
Speeds		Speed goes on of the min. to max.		
R.p.m. - t/min.	mm	24 to 820	26 to 875	26 to 875
Cutting speed	mt/1'	12-605	12-605	12-605
Electric motor (voltage 220V)	Fp.m.	100 to 3.400	82 to 2.700	82 to 2.700
Electric motor (voltage 220V)		2 CV to 1500 r.p.m.	2 CV to 1500 r.p.m.	2 CV to 1500 r.p.m.
Netto weight	kg	350	425	525
	Lbs.	770	940	1.160
Bruto weight	kg	450	550	675
	Lbs.	992	1.212	1.488
Dimensions	mm	1.985 x 950 x 650	2.060 x 1.210 x 700	2.060 x 1.910 x 700
	inch	78" x 37" x 25"	81" x 43" x 27"	81" x 75" x 27"
Dimensions packed	mm	2.100 x 1.100 x 800	2.300 x 2.050 x 900	2.300 x 2.050 x 900
	inch	83" x 43" x 31"	90" x 51" x 35"	90" x 81" x 35"

# Workshop machine






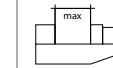


## Bandsaw machine

T2037534		Mini cut		
				
90°		100	100 x 100	100 x 150
45°		65	65 x 65	65 x 100
				
<b>kW</b>	<b>m/min.</b>	<b>mm</b>	<b>mm</b>	<b>Kg</b>
0.37	45	155	1470 x 13 x 0,65	23,6

### Accessories






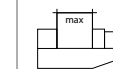


Pedestal



17016009		Special 215		
				
90°		150	150 x 150	200 x 120
45° dx		120	90 x 90	130 x 90
				
<b>kW</b>	<b>mt/min.</b>	<b>mm</b>	<b>mm</b>	<b>Kg</b>
0,6 x 0,8	40 x 80	215	2060 x 20 x 0,9	160








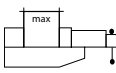


### Special 280M

				
90°		220	215	250 x 155
45°		160	150	160 x 110
60°		100	85	80 x 95
				
<b>kW</b>	<b>mt/min.</b>	<b>mm</b>	<b>mm</b>	<b>Kg</b>
0,75 x 1,1	40 x 80	250	2450 x 27 x 0,9	260






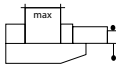




# Workshop machine






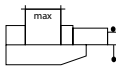


## Bandsaw machine

17016005		Special 300 M		
				
90°		230	220	300 x 170
45° left	left	150	135	120 x 150
45° right	right	200	190	190 x 150
60° right	right	115	115	115 x 125
				
<b>kW</b>	<b>mt/min.</b>	<b>mm</b>	<b>mm</b>	<b>Kg</b>
0,75 x 1,1	40 x 80	300	2825 x 27 x 0,9	350



17016003		Special 315 M		
				
90°		230	220	300 x 170
45°		210	210	210 x 210
60°		135	105 x 105	130 x 105
				
<b>kW</b>	<b>mt/min.</b>	<b>mm</b>	<b>mm</b>	<b>Kg</b>
0,75 x 1,1	40 x 80	315	2825 x 27 x 0,9	340






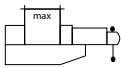




17016004		Special 315 S		
				
90°		230	220	300 x 170
45°		210	210	210 x 210
60°		135	105 x 105	130 x 105
				
<b>kW</b>	<b>mt/min.</b>	<b>mm</b>	<b>mm</b>	<b>Kg</b>
0,75 x 1,1	40 x 80	315	2825 x 27 x 0,9	390








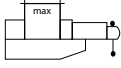


# Workshop machine

## Bandsaw machine







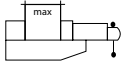


T2022315		Special 400 M		
				
90°		290	280	400 x 200
45° left	left	180	160	180 x 110
45° right	right	240	220	240 x 130
60° right	right	140	140	140 x 140
				
<b>kW</b>	<b>mt/min.</b>	<b>mm</b>	<b>mm</b>	<b>Kg</b>
0,9 x 1,6	37 x 75	400	3010 x 25,4 x 0,9	530



### Special 400 MSE

				
90°		290	280	400 x 200
45° left	left	180	160	180 x 110
45° right	right	240	220	240 x 130
60° right	right	140	140	140 x 140
				
<b>kW</b>	<b>mt/min.</b>	<b>mm</b>	<b>mm</b>	<b>Kg</b>
0,9 x 1,6	37 x 75	400	3010 x 27 x 0,9	680



T0020148		Special 380 A		
				
90°	220	290	290	320 x 290
45°	220	265	220	220 x 220
60°	130	130	130	130 x 130
				
<b>kW</b>	<b>mt/min.</b>	<b>mm</b>	<b>mm</b>	<b>Kg</b>
0,9 - 1,6	37 - 75	320	3010 x 27 x 0,9	800



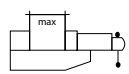




# Workshop machine

## Bandsaw machine

### Special 650 DI



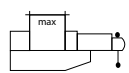


		○	□	▭
90°		460	450	620 x 450
45° left	left	450	430	450 x 400
60° left	left	330	300	320 x 220
45° right	right	450	410	450 x 340
60° right	right	300	300	270 x 420

				
<b>kW</b>	<b>mt/min.</b>	<b>mm</b>	<b>mm</b>	<b>Kg</b>
2,2	20 - 90	620	5270 x 34 x 1,1	1250



### Special 700 DI

		○	□	▭
90°		500	500	700 x 500
45° left	left	460	460	500 x 460
45° right	right	320	320	500 x 320
60° right	right	150	150	500 x 150

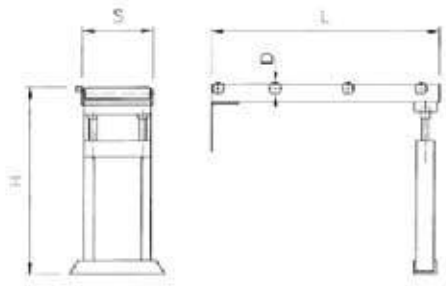
				
<b>kW</b>	<b>mt/min.</b>	<b>mm</b>	<b>mm</b>	<b>Kg</b>
4	20 - 118	710	5540 x 41 x 1,3	1800





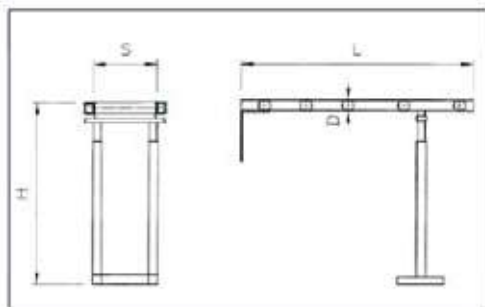
# Workshop machine

## Rollers conveyors



### Heavy-duty roller conveyors

	L (mm)	S (mm)	H min (mm)	H max (mm)	D (mm)	No. rollers	Capacity Kg/m
RD	2000	290 390	760	980	50	7	300 350
RDO	2000	290 390	760	980	50	7	300 350



### Lightweight roller conveyors

	L (mm)	S (mm)	H min (mm)	H max (mm)	D (mm)	No. rollers	Capacity Kg/m
VD	2000	200 280	740	1100	50	9	120 150
VDO	2000	200 280	740	1100	50	9	120 150

# Workshop machine

## Drilling machines

### B 13 - B 14

Guaranteed concentricity precision less than 0.03 mm measured in the drilling spindle sleeve. Spindle with precision ball bearings.

Quantum high-grade quick-action drill chuck with concentricity precision less than 0.09 mm supplied as standard (from B 14 onwards).

Smoother running due to aluminium pulleys with ground six-tooth dog (from B 14 onwards). Better power transmission due to the quality driving V-belt.

Long, ergonomically designed lever arm handles with softgrip for nonskid working. Drill depth stop. Precision-ground work table with transversally running T-slots, swivelling from -45° to +45° with 360° rotatability.

Solid, heavy duty base plate with T-slots, heavily ribbed at the backside.

T-slots for holding a vice supplied as standard (from B 14 onwards).

400 Volt models additional with right-left-hand rotation.

Powerful, smooth-running electric motors (from B 14 onwards). Proven quality.

Model		B 13	B 14
Voltage	V	230	230
Drilling capacity in steel (max.)	mm	13	14
Working range	mm	104	104
Spindle holding fixture	MK	fixed / B 16	fixed / B 16
Spindle speeds	rpm	520 - 2620	520-2620
Speeds		5	5
Sleeve travel	mm	50	50
Drilling table swivel	°	-45 -0 +45	-45 -0 +45
Upright diameter	mm	46	46
Table size (L x W)/T-slot size	mm	160 x 160/14	160 x 160/14
Motor power	W	300	350
Total height	mm	580	700
Net weight	Kg	21	24



### B 16 - B 20

Guaranteed concentricity precision less than 0.03 mm measured in the drilling spindle sleeve. Spindle with precision ball bearings.

Quantum high-grade quick-action drill chuck with concentricity precision less than 0.09 mm supplied as standard (from B 14 onwards).

Smoother running due to aluminium pulleys with ground six-tooth dog (from B 14 onwards). Better power transmission due to the quality driving V-belt.

Long, ergonomically designed lever arm handles with softgrip for nonskid working. Drill depth stop. Precision-ground work table with transversally running T-slots, swivelling from -45° to +45° with 360° rotatability.

Solid, heavy duty base plate with T-slots, heavily ribbed at the backside.

T-slots for holding a vice supplied as standard (from B 14 onwards).

400 Volt models additional with right-left-hand rotation.

Powerful, smooth-running electric motors (from B 14 onwards). Proven quality.

Model		B 16	B 20	B 20	B 20
Voltage	V	230	230	3 x 400	3 x 220
Drilling capacity in steel (max.)	mm	16	20	20	20
Working range	mm	125	170	170	170
Spindle holding fixture	MK	2	2	2	2
Spindle speeds	rpm	660-2500	210-2220	210-2220	210-2220
Speeds		5	12	12	12
Sleeve travel	mm	65	80	80	80
Drilling table swivel	°	-45 -0 +45	+45 -0 +45	-45 -0 +45	-45 -0 +45
Upright diameter	mm	60	70	70	70
Table size (L x W)/T-slot size	mm	200x200/14	275x275/14	275x275/14	275x275/14
Motor power	W	450	550	550	550
Total height	mm	820	990	990	990
Net weight	Kg	38	56	56	56



# Workshop machine

## Drilling machines

### B 25

Guaranteed concentricity precision less than 0.03 mm measured in the drilling spindle sleeve. Spindle with precision ball bearings. Quantum high-grade quick-action drill chuck with concentricity precision less than 0.09 mm supplied as standard (from B 14 onwards). Smoother running due to aluminium pulleys with ground six-tooth dog (from B 14 onwards). Better power transmission due to the quality driving V-belt. Long, ergonomically designed lever arm handles with softgrip for nonskid working. Drill depth stop. Precision-ground work table with transversally running T-slots, swivelling from -45° to +45° with 360° rotatability. Solid, heavy duty base plate with T-slots, heavily ribbed at the backside. T-slots for holding a vice supplied as standard (from B 14 onwards). 400 Volt models additional with right-left-hand rotation. Powerful, smooth-running electric motors (from B 14 onwards). Proven quality.

Model		B 25	B 25
Voltage	V	230	3 x 400
Drilling capacity in steel (max.)	mm	20	20
Working range	mm	170	170
Spindle holding fixture	MK	3	3
Spindle speeds	rpm	210-2220	210-2220
Speeds		12	12
Sleeve travel	mm	80	80
Drilling table swivel	°	-45 -0 +45	-45 -0 +45
Upright diameter	mm	70	70
Table size (L x W)/T-slot size	mm	275 x 275/14	275 x 275/14
Motor power	W	550	550
Total height	mm	1570	1570
Net weight	Kg	63	63



### B 32

Guaranteed concentricity precision less than 0.03 mm measured in the drilling spindle sleeve. Spindle with precision ball bearings. Quantum high-grade quick-action drill chuck with concentricity precision less than 0.09 mm supplied as standard (from B 14 onwards). Smoother running due to aluminium pulleys with ground six-tooth dog (from B 14 onwards). Better power transmission due to the quality driving V-belt. Long, ergonomically designed lever arm handles with softgrip for nonskid working. Drill depth stop. Precision-ground work table with transversally running T-slots, swivelling from -45° to +45° with 360° rotatability. Solid, heavy duty base plate with T-slots, heavily ribbed at the backside. T-slots for holding a vice supplied as standard (from B 14 onwards). 400 Volt models additional with right-left-hand rotation. Powerful, smooth-running electric motors (from B 14 onwards). Proven quality.

Model		B 32	B 32	B 32
Voltage	V	230	3 x 400	3 x 220
Drilling capacity in steel (max.)	mm	32	32	32
Working range	mm	225	225	225
Spindle holding fixture	MK	4	4	4
Spindle speeds	rpm	140-1980	140-1980	140-1980
Speeds		9	9	9
Sleeve travel	mm	125	125	125
Drilling table swivel	°	-45 -0 +45	-45 -0 +45	-45 -0 +45
Upright diameter	mm	92	92	92
Table size (L x W)/T-slot size	mm	360x360/14	360x360/14	360x360/14
Motor power	W	1,1	1,1	1,1
Total height	mm	1730	1730	1730
Net weight	Kg	138	138	138



# Workshop machine

## Bench drilling machine

### TB 6 - TB 6H

Maximum capacity to drill	mm	6
Morse taper	mm	-
Speeds	n.	3/6
Spindle travel	mm	45-50
Column diameter	mm	60
Distance from column to spindle centre	mm	115
Distance from table to spindle centre	mm	200
Distance from base to spindle centre	mm	-
Table dimensions	mm	-
Base dimensions	mm	210 x 190
Spindle speeds	RPM	1500 - 3000 - 5500 - 4000 - 7000 - 10000
Power of motor	HP	0,35
Approximate net weight	Kg	45
Total height	mm	-
Automatic feed of drill		-

### TB 10

Maximum capacity to drill	mm	10
Morse taper	mm	1
Speeds	n.	8
Spindle travel	mm	80
Column diameter	mm	75
Distance from column to spindle centre	mm	160
Distance from table to spindle centre	mm	300
Distance from base to spindle centre	mm	-
Table dimensions	mm	-
Base dimensions	mm	230 x 270
Spindle speeds	RPM	550 - 900 - 1300 - 2000 1100 - 1800 - 2600 - 4000
Power of motor	HP	0,6
Approximate net weight	Kg	75
Total height	mm	-
Automatic feed of drill		-

### TB 16

Maximum capacity to drill	mm	16
Morse taper	mm	2
Speeds	n.	5
Spindle travel	mm	85
Column diameter	mm	85
Distance from column to spindle centre	mm	210
Distance from table to spindle centre	mm	-
Distance from base to spindle centre	mm	230 ÷ 435
Table dimensions	mm	-
Base dimensions	mm	330 x 480
Spindle speeds	RPM	225-375-600-900-1300-450 -750-1200-1800-2600
Power of motor	HP	0,5
Approximate net weight	Kg	100
Total height	mm	1000
Automatic feed of drill		-

### TB20T

Maximum capacity to drill	mm	20
Morse taper	mm	2
Speeds	n.	10
Spindle travel	mm	100
Column diameter	mm	85
Distance from column to spindle centre	mm	210
Distance from table to spindle centre	mm	-
Distance from base to spindle centre	mm	230 ÷ 435
Table dimensions	mm	-
Base dimensions	mm	330 x 480
Spindle speeds	RPM	180-480-780-1080-1400- 360-960-1560-2160-2800
Power of motor	HP	1 (2 speeds)
Approximate net weight	Kg	110
Total height	mm	1000
Automatic feed of drill		-





# Workshop machine

## Column drilling machine

### TC 20

Maximum capacity to drill	mm	20
Morse taper	mm	2
Speeds	n.	10
Spindle travel	mm	100
Column diameter	mm	85
Distance from column to spindle centre	mm	210
Distance from table to spindle centre	mm	600
Distance from base to spindle centre	mm	1100
Table dimensions	mm	240 x 270
Base dimensions	mm	330 x 480
Spindle speeds	RPM	180-480-780n-1080-1400-360-960-1560-2160-2800
Power of motor	HP	1 (2 speeds)
Approximate net weight	Kg	150
Total height	mm	1650
Automatic feed of drill		-



**TC 20**

### TC 25

Maximum capacity to drill	mm	25
Morse taper	mm	3
Speeds	n.	8
Spindle travel	mm	100
Column diameter	mm	100
Distance from column to spindle centre	mm	260
Distance from table to spindle centre	mm	640
Distance from base to spindle centre	mm	1140
Table dimensions	mm	270 x 320
Base dimensions	mm	420 x 620
Spindle speeds	RPM	130 - 260 - 180 - 360 500 - 1000 - 750 - 1500
Power of motor	HP	1 (2 speeds)
Approximate net weight	Kg	205
Total height	mm	1750
Automatic feed of drill		-

**TC 25**



### TCV 25

Maximum capacity to drill	mm	25
Morse taper	mm	3
Speeds	n.	8
Spindle travel	mm	100
Column diameter	mm	100
Distance from column to spindle centre	mm	260
Distance from table to spindle centre	mm	640
Distance from base to spindle centre	mm	1140
Table dimensions	mm	270 x 320
Base dimensions	mm	420 x 620
Spindle speeds	RPM	130 - 260 - 180 - 360 500 - 1000 - 750 - 1500
Power of motor	HP	1 (2 speeds)
Approximate net weight	Kg	205
Total height	mm	1750
Automatic feed of drill		-



**TCV 25**

### TC 30

Maximum capacity to drill	mm	30
Morse taper	mm	3
Speeds	n.	8
Spindle travel	mm	120
Column diameter	mm	110
Distance from column to spindle centre	mm	275
Distance from table to spindle centre	mm	650
Distance from base to spindle centre	mm	1200
Table dimensions	mm	320 x 370
Base dimensions	mm	420 x 680
Spindle speeds	RPM	110 - 220 - 175 - 350 425 - 850 - 625 - 1250
Power of motor	HP	1.5 (2 speeds)
Approximate net weight	Kg	260
Total height	mm	1900
Automatic feed of drill		-

**TC 30**





# Workshop machine

## Column drilling machine

### TCV 30

Maximum capacity to drill	mm	30
Morse taper	mm	3
Speeds	n.	8
Spindle travel	mm	120
Column diameter	mm	110
Distance from column to spindle centre	mm	275
Distance from table to spindle centre	mm	650
Distance from base to spindle centre	mm	1200
Table dimensions	mm	320 x 370
Base dimensions	mm	420 x 680
Spindle speeds	RPM	110 - 220 - 175 - 350 425 - 850 - 625 - 1250
Power of motor	HP	1.5 (2 speeds)
Approximate net weight	Kg	260
Total height	mm	1900
Automatic feed of drill		-

### TCV 30 - TCV 40

Maximum capacity to drill	mm	30
Morse taper	mm	3/4
Speeds	n.	60 ÷ 1500
Spindle travel	mm	120
Column diameter	mm	125
Distance from column to spindle centre	mm	275
Distance from table to spindle centre	mm	600
Distance from base to spindle centre	mm	1100
Table dimensions	mm	300 x 380
Base dimensions	mm	430 x 780
Spindle speeds	RPM	60 ÷ 1500
Power of motor	HP	1.5 (2 speeds)
Approximate net weight	Kg	320
Total height	mm	2000
Automatic feed of drill		-

### TCV 35 - TCV 40

Maximum capacity to drill	mm	35
Morse taper	mm	4
Speeds	n.	8
Spindle travel	mm	140
Column diameter	mm	125
Distance from column to spindle centre	mm	300
Distance from table to spindle centre	mm	700
Distance from base to spindle centre	mm	1140
Table dimensions	mm	350 x 390
Base dimensions	mm	420 x 750
Spindle speeds	RPM	85 - 170 - 130 - 260 370 - 740 - 550 - 1100
Power of motor	HP	1.6 (2 speeds)
Approximate net weight	Kg	320
Total height	mm	1900
Automatic feed of drill		-



# Workshop machine

## Column drilling machine

### BX 35

Maximum capacity to drill	mm	35
Morse taper	mm	4
Speeds	n.	9
Spindle travel	mm	200
Column diameter	mm	160
Distance from column to spindle centre	mm	370
Distance from table to spindle centre	mm	795
Distance from base to spindle centre	mm	1200
Table dimensions	mm	480 x 560
Base dimensions	mm	470 x 800
Spindle speeds	RPM	81 - 115 - 162 - 226 - 321 452 - 637 - 904 - 1274
Power of motor	HP	2
Approximate net weight	Kg	490
Total height	mm	2270
Automatic feed of drill		0.10 - 0.20 - 0.3 (3 steps)

**BX 35**



### BX 40

Maximum capacity to drill	mm	40
Morse taper	mm	4
Speeds	n.	9
Spindle travel	mm	200
Column diameter	mm	180
Distance from column to spindle centre	mm	385
Distance from table to spindle centre	mm	990
Distance from base to spindle centre	mm	1250
Table dimensions	mm	480 x 560
Base dimensions	mm	540 x 810
Spindle speeds	RPM	61 - 85 - 123 - 191 - 269 390 - 574 - 806 - 1169
Power of motor	HP	3
Approximate net weight	Kg	610
Total height	mm	2390
Automatic feed of drill		0.10 - 0.20 - 0.30 - 0.40 (4 steps)

**BX 40**



### BX 50

Maximum capacity to drill	mm	50
Morse taper	mm	4
Speeds	n.	9
Spindle travel	mm	230
Column diameter	mm	200
Distance from column to spindle centre	mm	370
Distance from table to spindle centre	mm	975
Distance from base to spindle centre	mm	1300
Table dimensions	mm	520 x 620
Base dimensions	mm	550 x 860
Spindle speeds	RPM	54 - 75 - 109 - 169 - 297 344 - 507 - 712 - 1032
Power of motor	HP	4
Approximate net weight	Kg	710
Total height	mm	2475
Automatic feed of drill		0.10 - 0.20 - 0.30 - 0.40 (4 steps)

**BX 50**



# Workshop machine

## Radial drilling machine

### TR 40 / 1250 SP

Max. drilling diameter	mm	40
Max. tapping diameter	mm	25
Distance max. (spindle axis/column)	mm	1250
Distance min. (spindle axis/column)	mm	350
Head travel horizontal	mm	900
Dist. max. spindle nose and working basement surface	mm	1250
Dist. min. spindle nose and working basement surface	mm	350
Vertical arm travel	mm	550
Table dimensions	mm	600 x 500 x 500
Morse taper		MT 4
Spindle travel	mm	315
Speeds		16 (25 - 2500 min.)
Feeds		16 (0.04 - 3.20 mm/U)
Main motor power	kW	3
Machine dimensions	mm	2150 x 1070 x 2655
Weight	Kg	3160



### TR 50 / 1600 SP

Maximum drilling diameter	mm	50
Max. tapping diameter	mm	27
Distance max. (spindle axis/column)	mm	1600
Distance min. (spindle axis/column)	mm	350
Head travel horizontal	mm	1250
Dist. max. spindle nose and working basement surface	mm	1220
Dist. min. spindle nose and working basement surface	mm	320
Vertical arm travel	mm	600
Table dimensions	mm	600 x 500 x 500
Morse taper		MT 5
Spindle travel	mm	315
Speeds		16 (25 - 2000 min.)
Feeds		16 (0.04 - 3.2 mm/U)
Main motor power	kW	4
Machine dimensions	mm	2500 x 1060 x 2655
Weight	Kg	3500



### TR 60 / 2000 SP

Maximum drilling diameter	mm	60
Max. tapping diameter	mm	30
Distance max. (spindle axis/column)	mm	2000
Distance min. (spindle axis/column)	mm	450
Head travel horizontal	mm	1550
Dist. max. spindle nose and working basement surface	mm	1600
Dist. min. spindle nose and working basement surface	mm	400
Vertical arm travel	mm	620
Table dimensions	mm	600 x 500 x 500
Morse taper		MT 5
Spindle travel	mm	400
Speeds		16 (20 - 1600 min.)
Feeds		16 (0.04 - 3.2 mm/U)
Main motor power	kW	5.5
Machine dimensions	mm	3080 x 1250 x 3205
Weight	Kg	7000



# Workshop machine

## High speed drilling machine



**PE 5 - P 310**

Drilling capacity - Steel 60 kg	mm		5	
Morse taper		DIN B10		PINCE
Speeds		9		10
Speeds (RPM)	tr/min	440 - 12000		440 - 18000
Spindle travel	mm		40	
Micrometric reversing	mm/tr		-	
Automatic reversing	mm/tr		-	
Distance from spindle to column	mm		120	
Column diameter	mm		60	
Motor power	kW		0,25	
Weight	kg		40	

# Workshop machine

## Bench drilling machine



### NE 13

Drilling capacity - Steel 60 kg	mm	13
Morse taper		B 16
Speeds		5
Speeds (RPM)	tr/min	500 - 4500
Spindle travel	mm	100
Micrometric reversing	mm/tr	-
Automatic reversing	mm/tr	-
Distance from spindle to column	mm	185
Column diameter	mm	80
Motor power	kW	0,37
Weight	kg	55



# Workshop machine

## Bench drilling machine



### NE 220 V

Drilling capacity - Steel 60 kg	mm	20/23 <span style="border: 1px solid black; padding: 0 2px;">A</span>
Morse taper		CM 2
Speeds		Electronic variator
Speeds (RPM)	tr/min	50 - 4400
Spindle travel	mm	100
Micrometric reversing	mm/tr	-
Automatic reversing	mm/tr	-
Distance from spindle to column	mm	210
Column diameter	mm	80
Motor power	kW	0,75
Weight	kg	72

# Workshop machine

## Bench drilling machine with electronic speed controller



### NT 223

Drilling capacity - Steel 60 kg	mm	20/23 <a href="#">A</a>
Tapping capacity		M2 - M12
Morse taper		CM 2
Speeds		Electronic variator
Speeds (RPM)	tr/min	50 - 4400
Spindle travel	mm	100
Micrometric reversing	mm/tr	-
Automatic reversing	mm/tr	-
Distance from spindle to column	mm	210
Column diameter	mm	80
Motor power	kW	0,75
Weight	kg	85

# Workshop machine

## Column drilling machine



### NC 220V

Drilling capacity - Steel 60 kg	mm	20/23 <span style="border: 1px solid black; padding: 0 2px;">A</span>
Morse taper		CM 2
Speeds		Electronic variator
Speeds RPM	tr/min	50 - 4400
Spindle travel	mm	100
Micrometric reversing	mm/tr	-
Automatic reversing	mm/tr	-
Distance from spindle to column	mm	200
Ø column	mm	100
Motor power	kW	0,75
Weight	kg	160

# Workshop machine

## Column drilling-tapping machine



### NC 320V

Drilling capacity - Steel 60 kg	mm	32 <sup>A</sup>
Morse taper		CM 3
Speeds		Electronic variator
Speeds RPM	tr/min	80 - 3000
Spindle travel	mm	125
Micrometric reversing	mm/tr	-
Automatic reversing	mm/tr	Opt. electromagnetic
Distance from spindle to column	mm	235
Ø column	mm	1000
Motor power	kW	1,1
Weight	kg	270

# Workshop machine

## Drilling-milling machine












### NF 320

Drilling capacity - Steel 60 kg	mm	32 <b>B</b>
Morse taper		SA 30 ou CM 3
Speeds		10
Speeds RPM	tr/min	180-3500
Spindle travel	mm	125
Micrometric reversing	mm/tr	included
Automatic reversing	mm/tr	-
Distance from spindle to column	mm	235
ø column	mm	100
Motor power	kW	1,1/1,75
Weight	kg	270



# Workshop machine

## Drilling machine

	Motor	1.5 HP 3 Phases
	Spindel taper	MT3 OR R8
	Spindle stroke	130 mm
	Forward and backward travel of table	170 mm
	ø of column	115 mm
	Tapping	16 mm 5/8"
	Face mill	76 mm (3")
	End mill	20 mm (3/4")
	Drilling capacity	32 mm 1 1/4"

### Capacity

In mild steel	Drilling	32 mm (1 1/4")
	Face mill	76 mm (3")
	End mill	20 mm (3/4")
Optional	Tapping	16 mm (5/8")
Aluminium		32 mm (1 1/4")

Spindle speed (RPM)	
1 speed motor (standard)	60HZ 150~3000 50HZ 125~2500
2 speed motor (optional)	60HZ 75~3000 50HZ 62~2500
Working table	730 x 210 mm
Longitudinal travel	430 mm
Cross travel	185 mm
Number of T slots	4
T-slot size	16 x 26 mm
L x W x H	800 x 737 x 1143 mm
Weight	270 / 300 kgs

optional : pedestal

### Capacity 23 to 32 mm

	NF 23 EN	NF 320 EN	PF 32 EN
Drilling capacity - Steel 60 kg	23	32	32
Milling capacity	23	35	35
Morse taper	CM2	SA30	SA30
Spindle travel	100	125	150
Langs	250 x 130	450 x 160	400 x 220
Speeds RPM	8	10	infinite
Nb RPM	220 to 4000	180 to 3500	120 to 5000
Table sizes (mm)	400 x 220	600 x 240	660 x 305
Motor power Kw	0,75	1,1/1,75	1,1
Distance from spindle to column	210	235	300
Weight Kg	130	270	325

RF 31



NF 320



PF 32

# Workshop machine

## Milling machine maximart 4VS

### Standard accessories

MEEHANITE cast iron construction

Hardened and ground slide ways

Worktable hardened and ground

CP 4 spindle bearing

Coolant system

Automatic table feed X axis

Coolant ship tray

Automatic clamping of chucks

Auto lub unit

Protection of slides

Digital reading on 3 axes

Spindel speed variator



### Technical characteristics:

Table size	1370 x 254 mm
T-slots	3 x 16 mm
Slideway X - Y - Z	835 x 400 x 420 mm
Ram	680 mm
Motor power	5 HP
Spindle speeds RPM	50 to 3550 tr/min.
Spindle taper	40 (DIN 2080)
Spindle travel	127 mm
Quick feed spindle reverse	0,04 - 0,08 - 0,15 mm/tour
Weight	1400 kg

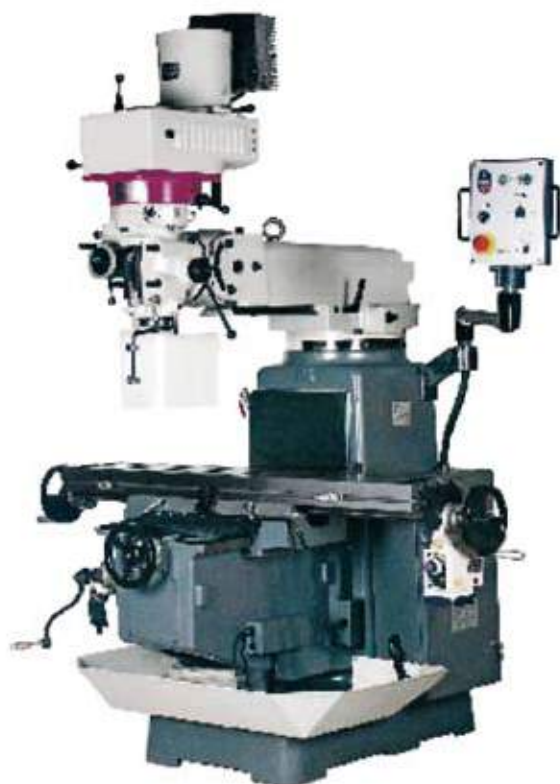
### Options :

Milling vice with swivel base, width 125 mm

Milling chuck opening 95 mm and collets cap 3 to 20 mm

# Workshop machine

## Milling machine



### MF 2 - MF 4

Multifunctional heavy-duty drilling machine for professional use. Continuous speed control with frequency.

- Solid, heavy-duty model made from high-grade Meehanite cast iron • Solid, precise cross table, amply dimensioned and precision-ground
- All slideways hardened • Solid, rectangular slideways for Z-axis (only MF 4 Vario) • All axis with adjustable dovetail slideway
- Continuous speed control with German frequency converter • Right-left-hand rotation for threading
- High concentricity precision due to taper roller bearings, less than 0.01 mm the spindle sleeve
- Milling head rotatability 360° and swivel of 180° • Automatic spindle sleeve feed
- Adjustable drill depth stop with millimetre scale, reading at the front • Electronic table height adjustmant (only MF 4 Vario)
- Main switch with protective motor switch, right-left-hand rotation switch, emergency stop switch
- Coolant pump supplied as standard • Economically-priced and stable value
- Coolant system • Chip pan • Automatic table feed X-axis • Operating tools

Model		MF 2	MF 4
Voltage	V	3 x 400	3 x 400
Drilling capacity in cast iron (max.)	mm	18	24
Drilling capacity in steel (max.)	mm	16	20
Milling capacity face cutter (max.)	mm	76/2,5	100/3,5
Milling cap. of end mill cutter (max.)	mm	12/6	20/6
Spindle holding fixture (DIN2080, DIN69871)		ISO 40	ISO 40
Cross table size (L x H)	mm	1244 x 230	1370 x 255
T-slot size	mm	16	16
X-Y-Z axis travel manual	mm	770 x 305 x 406	780 x 400 x 406
Spindle speeds	rpm	10 - 6500	9 - 6750
Automatic spindle sleeve feed	mm/omw	0,04 - 0,08 - 0,15	0,04 - 0,08 - 0,15
Working range	mm	213 - 533	200 - 680
Distance spindle / crosstable	mm	57 - 463	40 - 446
Travel of milling head	mm	320	480
Swivel of milling head	°	360	360
Inclination of milling head	°	45 - 0 - 45	45 - 0 - 45
Motor power 400 V / 50 Hz	kW	1,5	3,75
Spindle travel	mm	127	127
Capacity banks on of milling	kg	230	275
Dimensions (L x W x H)	mm	1400 x 1450 x 2150	1500 x 1450 x 2200

### Accessories MF2 - MF4 - Description mm

Draw(in) collet chuck SPW 14	Holding arbor ISO40-B16	Tool pneumatic changing
Horizontal and vertical divisor	Face mill/arbor ISO 40	
Automatic table feed x-axis V250	Chuck with collet chucks ISO 40	

# Workshop machine

## Milling machine



### UF 100

Quality through precision. The universal milling machine standards secures high productivity

- Wide range of applications • Solid, heavy-duty model made from high-grade Meehanite cast iron
- Solid, precise cross table, precision-ground • All guideways hardened adjustable due to tapered gibs
- For operations in horizontal milling-position with steady and holding fixture for milling cutters, adjustable slide bearing
- Central lubrication • Dove tail slideways • Main switch with protective motor switch, right-left-hand rotation switch, on switch
- Heavy duty handwheel with scale • Machine lamp supplied as standard • Coolant pump supplied as standard
- Cost-efficient and of stable value • Draw-in collet chuck kit with 8 collet chucks ISO 40 (ER 32) (4-5-6-8-10-12-14-16) • Adaptor ISO 40 - B16
- Adaptor ISO 40 - MT3 • Steady for horizontal milling position with holding fixture for side milling cutting adjustable slide bearing
- Coolant system • Machine lamp • Coolant drip pan • Solid machine vice with swivel base • Operating tools

Model		UF 100	UF 100 VF
Voltage	V	3 x 400	3 x 400
Drilling capacity in cast iron (max.)	mm	22	22
Drilling capacity in steel (max.)	mm	18	18
Milling capacity face cutter (max.)	mm	85	85
Milling cap. of end mill cutter (max.)	mm	16	16
Spindle holding fixture (DIN, DIN69871)	mm	ISO 40	ISO 40
Cross table size (L x H)	mm	1120 x 260	1120 x 260
T-slot size	mm	63/14	63/14
X-Y-Z axis travel manual	mm	600 x 270 x 430	600 x 270 x 430
Spindle speeds	rpm	40 - 1600	40 - 1600
Table feed (9 steps)	mm/min.	18 - 310	18 - 310
Load of cross table (max.)	kg.	350	350
Travel of milling head	mm	630	630
Swivel of milling head	°	360	360
Head orientation	°	360	360
Motor power	kW	2,2	2,2
Dimensions (L x W x H)	mm	1655 x 1325 x 1730	1655 x 1325 x 1730
Weight	kg.	1350	1350

### Accessories UF 100 - Description mm

Set of jaws SPW 12	Holding arbor ISO40 - B16	Chuck with collet chucks ISO 40
Vice FMS 150	Face mill arbor ISO 40	Tool pneumatic changing

# Workshop machine

## Lathes



### Lathes D250 x 400 / D 250 x 550 Varia

Type with infinitely variable speed

- Solid, aged prism bed made of grey cast-iron, matured at least six months, iron hardened (HRC 42 - 52) and precision-ground
- Hardened and ground slideways • Truth of running - spindle nose less than 0.009 mm
- Truth of running - lathe chuck less than 0.05 mm
- Highly precision machining • With saddle slide, compound slide and cross slide • Chip protection at the top slide
- Automatic longitudinal/leadscrew drive • Taper roller bearings in P5 quality • Rolled trapezoid spindle • Thrust bearing
- Leadscrew running on two porous bearings • Leadscrew for threading by kit of change wheels
- Large range of threading by kit of change wheels • High-grade lathe chuck protection
- Tailstock can be shifted +/- 5 for taper turning
- Right-/left rotation switchable at the control panel • Emergency-stop button and low tension release
- Quantum D 250 «Vario» type with frequency converter, thus with extreme er and almost constant course of torque
- Test certificate • Manufactured according to DIN 8606 (toolmaker's precision) • Stable value

Model		D 250 x 400 Vario	D 250 x 550 Vario
Voltage	V	230	230
Centre height	mm	125	125
Turning diameter (max.)	mm	250	250
Distance between centres	mm	450	550
Larg. du banc	mm	135	135
Spindle hole	mm	21	21
Spindle nose bush	MK	3	3
Top slide travel	mm	70	70
Spindle speeds de la broche	tpm	20 - 2500	20 - 2500
Longitudinal feeds	mm/O	0,1/0,2	0,1/0,2
Pitch - Metric	mm/O	0,4-3,5	0,4-3,5
Course chariot supérieur	mm	70	70
Cross slide travel	mm	110	110
Motor power	W	750	750
Haut. max. tourelle	mm	13	13
Dimensions (L x W x H)	mm	865 x 500 x 500	1015 x 500 x 500
Weight	kg	112	125



# Workshop machine

## High speed precision lathe

### High speed precision lathe - Model PRINCE 1330-1340

#### Features

- Rigid construction bed are induction hardened over HRC50 and with precision ground
- Harden and ground spindles & gears in headstock for high speed running at low noise
- Camlock spindle nose.
- Double walls apron as oil bath.
- Interlock device between feeding and threading.
- Smooth, easy speed change selection.
- Feed rod fitted with an overload clutch for safety
- Easy longitudinal & cross feed change operated by a push/pull plunger on apron.
- Simple, fast, pull up engage, push down disengage, feed control lever.
- Front moveable chip tray allows easy chip cleaning.
- Universal gear box provides comprehensive ranges of metric, whitworth, M.P. & D.P. threads.
- "One-Shot" lube pump on saddle provides excellent slideways central lubrication.

#### Options

##### Support

3 jaws scroll chuck  $\varnothing$  150 mm  
 Steady rest (5-80 mm)  
 Follow rest (5 to 80 mm)  
 Rotating center CM 3  
 Protect cover  
 Quick change tool post  
 4 jaws independent chuck  $\varnothing$  200  
 Turret type micrometer bed stop



Model		1330	1340
Centre height		165 (6.5)	
Swing over bed		330 (13)	
Swing over cross slide		190 (7.5)	
Swing in gap		510 (20)	
Distance between centres		750 (30)	1000 (40)
Gap width in front of faceplate		150 (6)	
Spindle nose (Camlock)		D-1-4	
Spindle bore		35 (1.375)	
Spindle speeds	Numbers	8	16-OPTIONAL
	RPM	105-2000	53-2000
Spindle nose bush		M.T. No. 4	
Tailstock centre		M.T. No. 3	
Width of bed		185 (7.3)	
Length of bed		1380 (54.25)	1650 (65)
Cross slide travel		145 (5.7)	
Top slide travel		95 (3.75)	
No. of whitworth threads		32 (in.) 24(mm) 36-optional	
Range of whitworth threads		4-56 (in.) 4-28 (mm) 4-72 optional	
No. of metric threads		14 (in.) 18 (mm) 31-optional	
Range of metric threads		0.5-6.0 mm (in.) 0.45--7.0 mm (mm) 0.2-7.0 mm-optional	
No. of Diametral pitch threads		21 optional	
Range of D.P. threads		8--44 D.P.-optional	
No. of module pitch threads		18-optional	
Range of module pitch threads		0.3--3.5 mm-optional	
Longitudinal feeds		0.038-0.254(0.0015-0.01) 0.02--0.520(0.0008-0.0205)-optional	
Cross feeds		0.012-0.090(0.0005-0.0035) 0.006-0.170(0.00023-0.0067)-optional	
Motor	Standard	2.25KW (3HP)	
	Optional	2.25/1.12KW (3/1.5HP)	
	Varispeed	1.5KW (2HP)	
Varispeed YASKAWA inverter		V7 (2.2KW)	
Packing sizes	Length	1625 (64)	1930 (76)
	Width	760 (30)	
	Height	1478 (58) 1623 (64)-CE	
Net weight (Approx. kgs)		620	670

# Workshop machine

## High speed precision lathe

### High precision lathe

#### Model CHAMPION 1530 VS - 1540 VS - 1550 VS

##### Standard accessories :

- Rigid construction bed are induction hardened over HRC50 and with precision ground
- Harden and ground spindles & gears in headstock for high speed running at low noise
- Camlock spindle nose.
- Double walls apron as oil bath.
- Interlock device between feeding and threading.
- Smooth, easy speed change selection.
- Feed rod fitted with an overload clutch for safety
- Easy longitudinal & cross feed change operated by a push/pull plunger on apron.
- Simple, fast, pull up engage, push down disengage feed control lever.
- Front moveable chip tray allows easy chip cleaning.
- Universal gear box provides comprehensive ranges of metric, whitworth, M.P. & D.P. threads.
- "One-Shot" lube pump on saddle provides excellent slideways central lubrication.

##### Options :

Support

3 jaws scroll chuck  $\varnothing$  230 mm

Steady rest (5 to 113 mm)

Follow rest (5 to 115 mm)

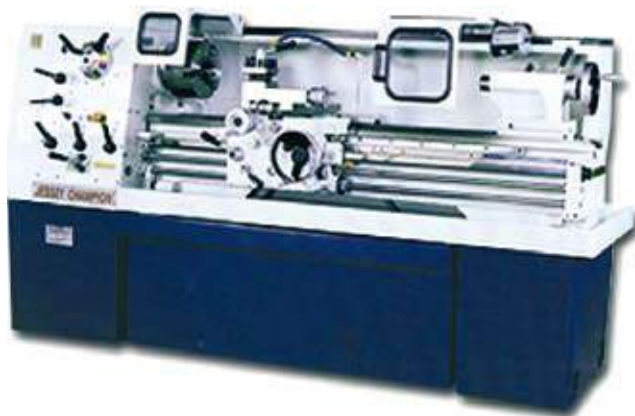
Rotating center CM 4

Protect cover

Quick change tool post

Digital reading on 2 axes (FAGOR)

Turret type micrometer bed stop



Model		1530	1540	1550
Centre height		190 (7.5)		
Swing over bed		390 (15.25)		
Swing over cross slide		240 (9.5)		
Swing in gap		610 (24)		
Distance between centres		760 (30)	1000 (40)	1250 (50)
Gap width in front of faceplate		150 (6)		
Spindle nose (Camlock)		D-1-6		
Spindle bore		54 (2.125)		
Spindle speeds	Numbers	16		
	RPM	25-2000		
Spindle nose bush		M.T. No.6		
Tailstock centre		M.T. No.4		
Width of bed		270 (11)		
Length of bed		1710 (66.5)	1950 (76.5)	2200 (86.5)
Cross slide travel		230 (9)		
Top slide travel		120 (4.75)		
No. of whitworth threads		45		
Range of whitworth threads		2-72		
No. of metric threads		39		
Range of metric threads		0.2--14 mm		
No. of Diametral pitch threads		21		
Range of D.P. threads		8--44 D.P.		
No. of module pitch threads		18		
Range of module pitch threads		0.3--3.5 mm		
Longitudinal feeds		0.040-1.00 (0.0015-0.04)		
Cross feeds		0.02-0.50 (0.0008-0.02)		
Motor	Standard	5.5 KW (7.5HP)		
	Optional	-		
	Varispeed	5.5 KW (7.5HP)		
Varispeed YASKAWA inverter		F7 (5.5KW)		
Packing sizes	Length	1970 (77)	2210 (87)	2515 (99)
	Width	1016 (40)		
	Height	1600 (63) 1752(69)-CE		
Net weight (Approx. kgs)		1000	1150	1300

# Workshop machine

## High speed precision lathe

### High speed precision lathe - Model MAJOR 2060 VS - 2080 VS - 20120 VS

#### Features :

- Rigid construction bed are induction hardened over HRC50 and with precision ground
- Harden and ground spindles & gears in headstock for high speed running at low noise.
- Camlock spindle nose.
- Double walls apron as oil bath
- Interlock device between feeding and threading.
- Smooth, easy speed change selection.
- Feed rod fitted with an overload clutch for safety
- Easy longitudinal & cross feed change operated by a push/pull plunger on apron.
- Simple, fast, pull up engage, push down disengage, feed control lever.
- Front moveable chip tray allows easy chip cleaning.
- Universal gear box provides comprehensive ranges of metric, whitworth, M.P. & D.P. threads.
- «One-Shot» lube pump on saddle provides excellent slideways central lubrication.

#### Options :

Digitale reading on 2 axes  
for distance between center 1500 mm  
for distance between center 2000 mm  
for distance between center 3000 mm  
Quick change tool post with 4 toolholder  
Set of cutting tools

- 1 toolholder (cutting) + 1 cutting blade
- 10 cutting inserts width 3 mm
  - Threading tool holder  
+ 40 inserts 55° (14-18F) inch to 14-8F/inch
  - 40 threading inserts ISO 60° - 1,5/UN - 48-16 F/inch  
to ISO 60° - 7,75-3/UN 14-8F inch
  - 90 threading inserts ISO 60° step 0,5 to 3 mm
  - 130 threading inserts UN 60° step UN 8 F/inch to UN 32 F/inch
  - 1 kit boring tools holder ø 8-10-12-16 mm + 10 inserts CLMT 09T308
  - 1 kit PCLNR holder for external turning + 10 inserts CNR 120408

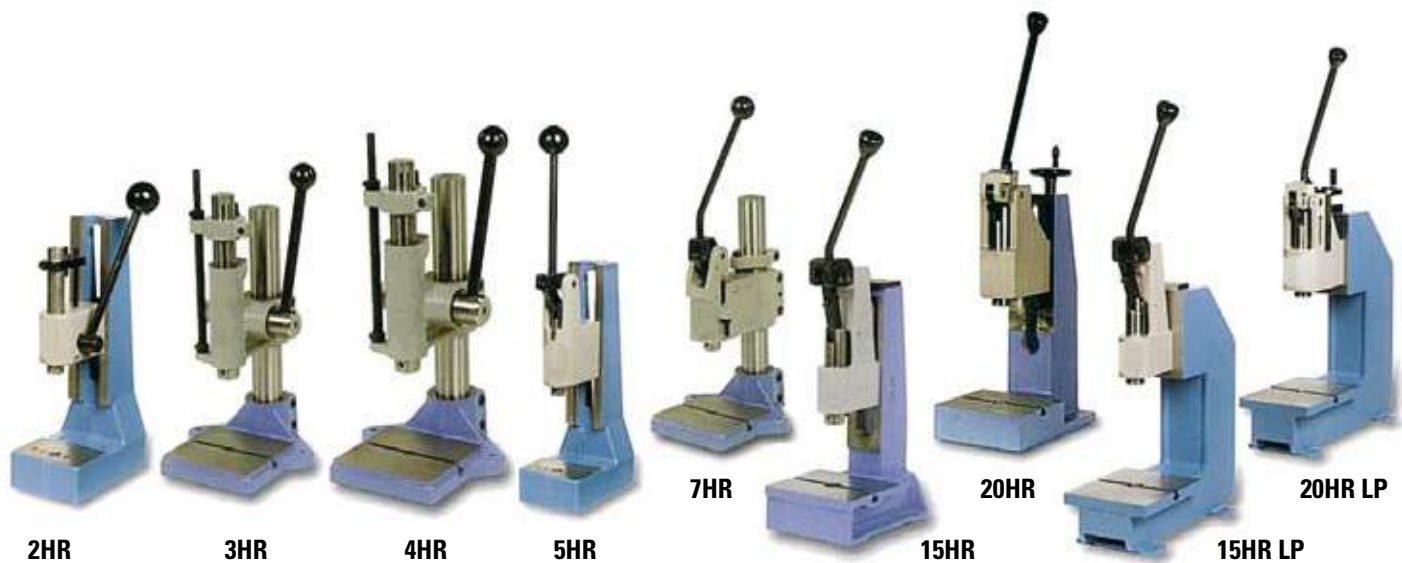
4 jaws independant chuck ø 400  
Turret type micrometer bed stop



Model		MAJOR 2040, 2060, 2080, 20120
Centre height		254 (10)
Swing over bed		510 (20)
Swing over cross slide		340 (13.5)
Swing in gap		760 (30)
Distance between centres		2040, <b>1000</b> (40), 2060, <b>1500</b> (60) 2080, <b>2000</b> (80), 20120, <b>3000</b> (120)
Gap width in front of faceplate		220 (8.7)
Spindle nose (Camlock)		D-1-8
Spindle bore		80 (3.125)
Spindle speeds	Numbers	16
	RPM	20-1600
Spindle nose bush		M.T. No.7
Tailstock centre		M.T. No.5
Width of bed		345 (13)
Length of bed		2040, 2110 (83), 2060, 2670 (105), 2080, 3175 (125), 20120, 4190 (165)
Cross slide travel		265 (10.5)
Top slide travel		130 (5.1)
No. of whitworth threads		45
Range of whitworth threads		2-72 T.P.I
No. of metric threads		39
Range of metric threads		0.2-14 mm
No. of Diametral pitch threads		21
Range of D.P. threads		8-44 D.P.
No. of module pitch threads		18
Range of module pitch threads		0.3-3.5 mm
Longitudinal feeds		0.04-1.0 (0.0015-0.04)
Cross feeds		0.02-0.5 (0.0008-0.02)
Motor	Standard	7.5KW (10HP) 9.375KW (12.5HP)-120" Series
	Optional	9.375KW (12.5HP)-40" 60"80" Series
	Varispeed	7.5KW (10HP) 9.375KW (12.5HP)-120" Series
Varispeed YASKAWA inverter		G7(7.5KW) G7(9.375KW)-120" Series
Packing sizes	Length	2040, 2388 (94), 2060, 2947 (116) 2080, 3455 (136), 20120, 4470 (176)
	Width	1100 (44)
	Height	1778 (70) 1928 (76)-CE
Net weight (Approx. kgs)		2000/2200/2500/3500

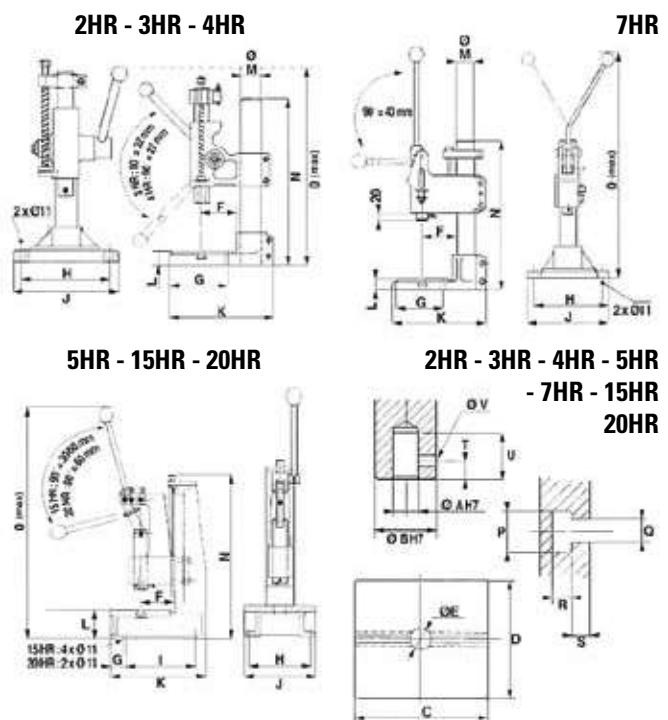
# Workshop machine

## Manual bench presses



	2HR	3HR	4HR	5HR	7HR	15 HR	20HR	15HR LP	20HR LP
Rack presses									
Articulated lever presses									
Power	200 kg	400 kg	600 kg	500 kg	700 kg	1500 kg	2000 kg	1500 kg	2000 kg
Travel	0->50 mm	0->80 mm	0->100 mm	0->50 mm	40 mm	30->60 mm	60 mm	30->60 mm	60 mm
Clear height	54->200 mm	35->270 mm	46->280 mm	42->185 mm	35->260 mm	60->250 mm	120->280 mm	220 mm	250 mm
Swan-neck depth	72 mm	80 mm	95 mm	72 mm	95 mm	102 mm	130 mm	220 mm	250 mm
Weight	8 kg	17 kg	25 kg	9 kg	25 kg	32 kg	65 kg	5 kg	70 kg

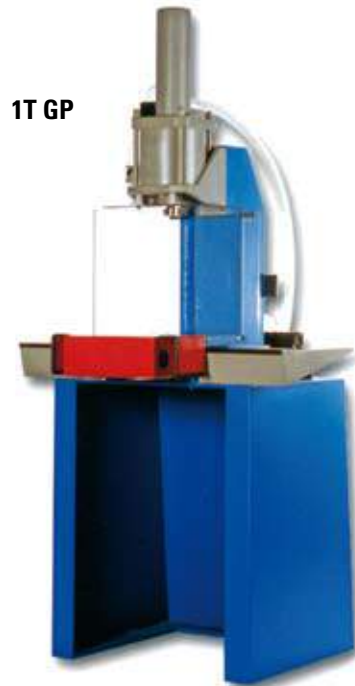
	2HR	3HR	4HR	5HR	7HR	15HR	20HR	15HR LP	20HR LP
A	10	14	16	10	14	16	16	16	16
B	20	30	35	20	30	40	45	40	45
C	100	130	160	100	160	200	220	200	220
D	70	118	145	70	145	180	200	180	200
E	14	14	14	14	14	32 <sup>h7</sup>	32 <sup>h7</sup>	32 <sup>h7</sup>	32 <sup>h7</sup>
F	72	65	80	72	80	100	130	220	250
G	84	127	138	84	138	45	225	72	72
H	60	165	200	60	200	175	175	160	160
I	-	-	-	-	-	205	-	330	395
J	100	195	240	100	240	200	220	190	190
K	165	210	250	165	250	285	350	490	560
L	45	30	31	45	31	87	80	119	138
M	-	40	50	-	50	-	-	-	-
N	327	380	400	327	400	495	650	563	710
O	470	600	650	581	700	880	990	990	1045
P	-	15.5	15.5	-	15.5	21	21	21	21
Q	-	8	8	-	8	12	12	12	12
R	-	7.5	7.5	-	7.5	9	9	9	9
S	-	10	10	-	10	9	9	9	9
T	10	12	12	10	12	12	12	12	12
U	23	26	26	23	26	26	26	26	26
V	M6	M8	M8	M6	M8	M8	M8	M8	M8





# Workshop machine

## Pneumatic presses



		6 PHR	8 PHR	1T	1T GP	3T	4,3 T	3T GP	4,3 T GP	6T
Power	kg	360	700	1000	1000	A=3000 B=1900	4300	A=3000 B=1900	4300	6000
Travel	mm	0->50	0->100	0->100	0->100	A=0->54 B=0->69	0->40	A=0->54 B=0->69	0->40	0->50
Clear height	mm	20->250	20->260	140->200	300	A=180 B=195	175	A=295 B=310	290	290
Swan-neck depth	mm	95	95	100	180	110	110	180	180	180
Weight	kg	25	50	125	150	150	150	200	200	230
Lower speed	mm/ sec.	150	130	100	100	A=48 B=75	36	A=48 B=75	36	40
Air consumption	L	1	2,5	3,5	3,5	5,2	5,2	5,2	5,2	9,8



# Workshop machine

## Mechanical presses



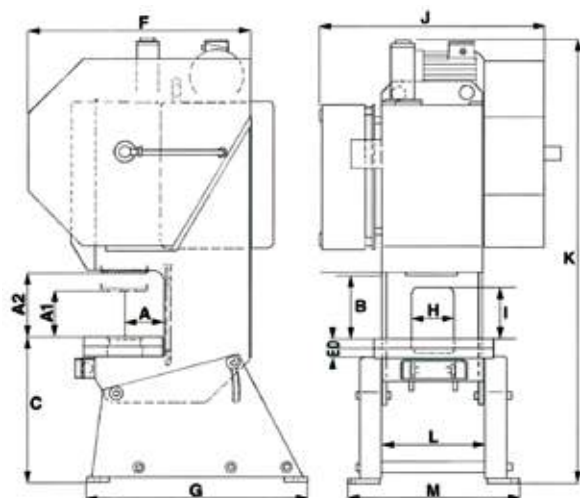
	25 t	45 t	80 t
Power	25 t	45 t	80 t
Variable travel	5 -> 75 mm	6 -> 100 mm	8 -> 120 mm
Clear height	300 mm	350 mm	400 mm
Swan-neck depth	200 mm	220 mm	300 mm
Number of cycle/mn	140	130	100
Swivel screw adjustment	0 -> 60 mm	0 -> 70 mm	0 -> 100 mm
Slider dimension	240 x 170 mm	350 x 250 mm	580 x 350 mm
Slider hole	ø 38 <sup>h7</sup> x 55 mm	ø 50 <sup>h7</sup> x 65 mm	ø 50 <sup>h7</sup> x 100 mm
Motor power	2.2 kw	5.5 kw	5.5 kw
Air consumption for one cycle	0.7 l	0.9 l	0.7 l
Table dimensioning	550 x 400 x 48 mm	650 x 430 x 57 mm	850 x 600 x 67 mm
Weight	1400 kg	3100 kg	5000 kg

### Standard fittings

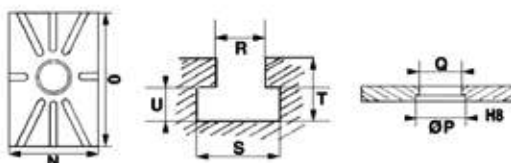
- Two hands control
- 20° inclinable base
- Centralized lubrication
- 8 digit counter without reset
- 6 digit counter with reset
- Single stroke or continuous work
- Regulation with or without motor
- Positive ejector in the slider
- Balancing cylinders (except 25t)
- Bottom dead center slider hydraulic unblocking (except 25t)
- Pneumatic unblocking for the stroke adjustment (80t)

### Options :

- Variable speed drive
- Safety Opto-electronic device
- Automatic vertical screen
- Bottom dead center slide, unlocking wedge (25t)
- Control by treadle
- Stripper pot
- ...



25 t			45 t			80 t		
	A1	A2		A1	A2		A1	A2
5	262	267	6	299	305	8	332	340
13	258	271	14	295	309	18	328	346
24	252	276	26	289	315	32	321	353
34	248	282	39	282	321	46	314	360
44	242	286	50	277	327	60	306	366
53	238	291	61	271	332	73	300	373
61	234	295	71	266	337	85	295	380
67	231	298	79	262	341	95	290	385
71	229	300	86	259	345	104	285	389
74	227.5	301.5	92	256	348	111	282	393
75	227	302	97	253.5	350.5	116	279	395
			99	251.5	351.5	119	278	397
			100	252	352	120	278	398



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
25 t	200	302	848	48	48	1050	1040	240	270	1215	2050	475	850	400	550	168	150	16	28	22	12
45 t	220	352	890	57	57	1210	1200	220	380	1300	2450	575	930	430	650	168	150	16	28	22	12
80 t	300	400	900	-	67	1250	1500	320	440	1340	2750	750	1210	595	850	220	200	18	32	25	14

# Workshop machine

## Workshop presses



### Hand operated press

Model	Max T	mm/sec	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	kg
FP 20-AA/AR	20	9,0/3,0	1000	600	140	215	90	50	1850	880	520	145
HP 20-AR	20	3,00	1000	600	140	215	90	50	1850	880	520	143
HP 20-AA/AR	20	9,0/3,0	1000	600	140	215	90	50	1850	880	520	144
HP 25 Junior	25	3,00	960	600	140	145	90	50	1850	880	520	143
HP 25	25	10,4/1,1	860	640	160	180	100	60	1790	1070	550	206
HP 40	40	6,7/0,7	830	840	200	180	125	60	1830	1350	620	315
HP 60	60	3,8/0,4	765	1000	255	200	165	85	1960	1540	680	620
HP 100	100	2,1/0,2	825	1100	345	200	225	110	2440	1670	720	928
HP 125	125	2,1/0,2	895	1100	420	200	225	110	2170	1800	720	1200

HP : Hand press

FP : Foot press

### Hand operated press 30T

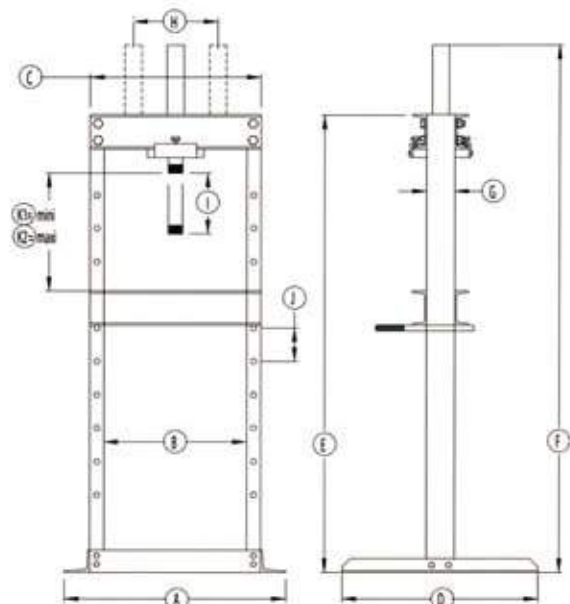
	kck-30A
Max load	30
Dimensions mm	
A width	670
B length feet	650
C length	1750
D thickness	120
E inside width	550

### Hand operated press 30T

	kck-30A
G1 min	180
G2 max	630
R1 Hydraulic stroke	95/120
R2 Extension screw stroke	75
R Total stroke	170
Weight kg	137

Like picture but in 30T

	8 T	10 T	20 T	30 T
				
A	540	740	790	920
B	360	540	510	620
C	480	640	640	770
D	304	610	700	700
E	715	1650	1650	1630
F	895	1908	1735	1748
G	135	100	125	150
H	200	435	312	418
I	152	254	125	200
J	102	120	120	120
K1	160	215	232	295
K2	254	1065	1072	1015
	50 kg	95 kg	155 kg	210 kg



# Workshop machine

## Hydraulic presses with motor

### Hydraulic presses with motor - Model DPM 1070-100

#### Technical characteristics

Press power	kN	1000
Max. pressure	bar	263
Stroke	mm	300
Diameter of piston arm	mm	220 x 160
Motor power	kW	7,5
Advance speed	mm/sec	8
Working speed	mm/sec	5
Return speed	mm/sec	10
Weight	kg	2000
Dimensions L x l x H	mm	2160 x 1400 x 2280



#### Standard specifications

- Steel welded frame
- Easy to operate
- Stop at any position
- Pressure manometer
- Safety valve against overloading
- V-Blocks standard
- Adjustable table height
- Fast approach, slow work speed with special joystick control
- Suitable for CE regulations
- Users manual book

# Workshop machine

## Impactor presses

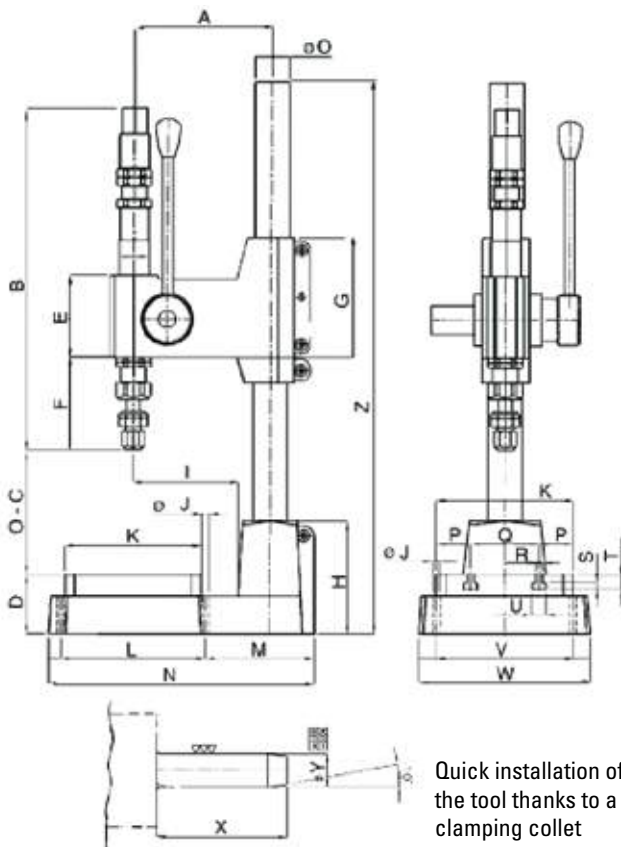


### Manual impactor presses

	PM 6	PM 30	PM 60
Kracht	600 kg	3t	6t
Travel	25	40	40
Clear height	250	250	520
Swan-neck depth	100	140	195
Weight	11	31	103

### Pneumatic impactor presses

	PM 6-P	PM 30-P	PM 60-P
Kracht	600 kg	3t	6t
Travel	30	40	45
Clear height	300	300	300
Swan-neck depth	100	140	195
Weight	11	31	103



	PM 6	PM 30	PM 60	PM 6-P	PM 30-P	PM 60-P
A	112	160	230	120	180	270
B	238	401	225	220	380	670
C	250	250	520	300	300	300
D	50	70	90	60	85	110
E	60	95	180	67	116	180
F	46	110	145	46,5	110	145
G	90	140	245	90	150	250
H	70	132	190	90	150	210
I	86	123	174	86	135	190
J	6,5	8,5	10,5	6,5	8,5	10,5
K	100	160	220	100	160	240
L	135	170	230	110	170	250
M	80	127	190	117	155	228
N	215	312	445	242	340	503
O	30	40	70	40	60	100
P	25	40	50	25	40	60
Q	50	80	120	50	80	120
R	6	8	12	6	8	12
S	6	8	9	9	10	13
T	15	18	22	15	18	22
U	12,5	16	21	12,5	16	21
V	90	160	230	110	164	250
W	130	200	280	140	200	300
X	27	38	48	27	38	48
Y	6	10	16	6	10	16
Z	500	650	1000	500	640	830

Marking tools on request

# Workshop machine

## Plate shears

Robust stable body from high quality steel sharpened blades from high grade hardened and tempered steel.

### Long blade shears.

Type		D 20001	D 20010
Metal sheet	to mm	4	5
Plate	to mm	50 x 5	80 x 6
Round	to mm	13	13
Blades length	env. mm	300	400
Spare blade : upper			
Spare blade : lower			

D 20001



### Shears for plate 4 to 6 mm with knife for round

Type		D 20005	D 20006	D 20007
Metal sheet	to mm	4	5	6
Round	to mm	10	11	13
Blades length	env. mm	120	150	180
Spare blade : upper				
Spare blade : lower				

D 20006



### For sheet 8 mm, L and T angle iron with 3 operations

Type		D 20011
Metal sheet	to mm	8
Plate	to mm	100 x 9
Round-square	to mm	20 or 18
L-T angle	to mm	40 x 40 x 6
Blades length	env. mm	175
Spare blade : upper		
Spare blade : lower		

D 20011





# Workshop machine

## Reinforcing steel bar shears and punching machines

### Reinforcing steel bar shears (concrete iron shear)

Greatness	D 20403	D 20404
Round		
to mm 45 kg/mm <sup>2</sup>	22	28
to mm 65 kg/mm <sup>2</sup>	18	24
to mm 85 kg/mm <sup>2</sup>	16	20
Square	19	25
With special blade		
Plate	30 x 12	50 x 12
Blade length mm	35	50
Weight net kg		
Spare blade		



D 20403

### Punching machines

Type		D 20302
Punching		
Round	to mm	ø 17 x 12
Steel sheet	to mm	12
Gap depth	mm	50
Distance of the centre in the face of however - matrix	mm	19
Spare punches		
Spare die		



D 20301

### Punching machines

With safety spring

Type		D 20201	D 20202	D 20203
Punching				
Round	to mm	ø 8	ø 12	ø 13
Steel sheet	to mm	ø 6,3	ø 8	ø 10
Special tools	to mm	ø 18 en 3,5	ø 18 en 5,3	ø 22 en 5,8
I angle DIN 1025	to PN	-	120-140	120-180
I angle	to PN	80	80-220	80-280
U angle DIN 1026	to PN	-	-	120-220
U angle	to PN	65	65-160	65-280
Gap depth	mm	90	120	150
Punch - punch support				
Normal punch - die				



D 20202

# Workshop machine

## Plate shears and combined shearing and punching machines

### Plate shears

With knife for round, square, T profiles

Type		D 20102
Metal sheet	to mm	10
Plate	to mm	90 x 14
Round-square	to mm	22-20
L angle iron in one cut	to mm	60 x 7
T angle iron in one cut	to mm	60 x 7
L-T angle iron in 3 cuts	to mm	80 x 8
Blade length	env. mm	175
Spare blades upper		
Spare blades lower		



### Combined shearing and punching machines

Type		D 20304
Metal sheet	to mm	6
Plate	to mm	70 x 6
Round	to mm	13
Square	to mm	-
L-angle in one cut	to mm	
T-angle in one cut	to mm	
L-T angle in 3 cuts	to mm	
Blades length	mm	200
Punching		
Punches holes	to mm	ø 10
Steel	to mm	6,3
Gap depth	env. mm	90
Spare blades, upper, lower		
Punche, die		



# Workshop machine

## Sheet shears

### Hand lever shears

Type TLS 10/16 is a high quality precision shear ideal for roofing, insulation and plumbing work. Perfect cutting of sheet materials up to 1,6 mm in thickness. Can be used for continuously cutting. The newly developed cutting system ensures very clean cuts with the least possible torsion of the strips. A spring loaded back-gauge with mm-counter and spindle adjustment is standard. Designed for continuously cutting in 1,6 mm sheet metal.

Type	Shearing length	Sheet thickness 400 N/mm <sup>2</sup>	Table length	Table width	Table height	Length	Width	Height	Weight
	mm	mm	mm	mm	mm	mm	mm	mm	kg
<b>TLS 10/16</b>	1010	Max. 1,6	1290	785	760	2200	1000	1335	310



**TLS 10/16**

### TS Shears

The **TS models** are bench mounted high precision shears. Perfect cutting of sheet materials up to 1,25 mm thickness. The «blade to blade» cutting system ensures very clean cuts with the least possible torsion of the strips.

**Type TS** are manual operated machines and **type TS-M** are motorised machines. All models are standard with a manual back-gauge with mm-scale and squaring arm. The motorised models are with foot pedal, cutting line lighting and complete rear guarding with interlock.



**TS 06/12**



**TS 06/12M**

### TCS 100 Corner notcher

Type TCS 100 is a manual corner notcher, designed in a sturdy and easy to operate construction. The squaring guides can be easily positioned in whatever position and angularity.

- Adjustable upper and lower knives
- Graduated scale on both sides of lower die
- Robust construction - Weight 100 kg
- Adjustable stops for repeatability
- Quick easy adjustment of lower die
- Reduction gear on hand lever.

Type	Shearing length	Sheet thickness 400 N/mm <sup>2</sup>	Cuts/ min.	Motor	Bench width	Bench height	Length	Width	Height	Weight
	mm	mm		kW	mm	mm	mm	mm	mm	kg
TS 06/12	650	1,25	-	-	265	172	850	380	345	87
TS 06/12 M	650	1,25	60	0,75	265	272	885	940	505	105
TS 10/10	1050	1,00	-	-	265	200	1250	380	380	190
TS 10/10 M	1050	1,00	60	0,75	265	340	1250	950	535	215
<b>TCS 100</b>	102x102	3,00	-	-	380x280	-	450	390	550	100



**TCS 100**

# Workshop machine

## Motorised sheet shears



### TCS 20622 SMP mechanical power shears

are sturdy and well dimensioned machines of fully welded construction. The direct drive chain system provides a very efficient operation with fast cutting speed and a very low noise level. All moving parts in maintenance free bearings. Low shearing angle for minimum distortion.

#### Standard equipment :

- Manual back-gauge with mm-counter
- Cutting line lighting
- Table extensions, 600 mm
- Bench angle gauge
- Mobile 24 V foot switch
- TONVR control equipment
- Two sides shear blades
- Rear guarding with interlock



Type	Shearing length	Sheet thickness 400 N/mm <sup>2</sup>	Shearing angle	No. of cuts/min.	Motor	Back gauge	Bench width	Bench height	Length	Width	Height	Weight
	mm	mm	Degrés		kW	mm	mm	mm	mm	mm	mm	kg
SMP 1230	1275	3,0	2,0°	35	3,0	635	330/930	860	1500	550	1100	760
SMP 2020	2025	2,0	1,75°	38	3,0	640	330/930	870	2250	560	1130	990

### MPS 25/25 Sheet shears MPS

Shears type MPS are robust and well dimensioned machines with fully welded construction. The direct drive chain system provides a very efficient operation with fast cutting speed and a very low noise level. Optimal rake angle for minimum distortion. The perfect cut is guaranteed by high quality knives and sturdy frames. Automatic sheet hold down covered with rubber.

#### Standard equipment :

- Manual back-gauge with mm-counter
- Table extensions
- Mobile 24 V foot switch
- Angle gauge
- Automatic rubber-coated sheet hold-down unit

#### Optional equipment :

- Motorised back-gauge with manual fine adjustment



Type	Shearing length	Sheet thickness 400 N/mm <sup>2</sup>	Shearing angle	No. of cuts/min.	Motor	Back gauge	Bench width	Bench height	Length	Width	Height	Weight
	mm	mm	Degré		kW	mm	mm	mm	mm	mm	mm	kg
MPS 12/40	1250	4,00	2,4°	35	4,0	635	400/650	800	1630	700	1160	1200
MPS 20/30	2050	3,00	2,0°	35	4,0	635	400/650	800	2380	700	1160	1400
MPS 25/25	2550	2,50	1,8°	35	4,0	635	400/650	800	2900	700	1160	1590
MPS 30/25	3050	2,50	1,5°	35	4,0	635	400/650	800	3380	700	1160	1850

# Workshop machine

## Motorised sheet shears



### MPSH 20/40 Motorised sheet shears type MPSH

Shears type MPSH are robust and well dimensioned machines with fully welded construction. The direct drive chain system provides a very efficient operation with fast cutting speed and a very low noise level. Optimal rake angle for minimum distortion. The perfect cut is guaranteed by high quality knives and sturdy frames. Automatic sheet hold down covered with rubber.

#### Standard equipment :

- Manual back-gauge with mm-counter, 650 mm
- Table extensions
- Mobile 24V foot switch
- Angle gauge, 400 mm
- Automatic rubber-coated sheet hold-down unit

#### Optional equipment :

- Motorised back-gauge with manual fine adjustment

Type	Shearing length	Sheet thickness 400 N/mm <sup>2</sup>	Shearing angle	No. of cuts/min.	Motor	Back-gauge	Bench width	Bench height	Length	Width	Height	Weight
	mm	mm	Degré		kW	mm	mm	mm				
MPSH 12/45	1300	4,50	2,4°	30	5,5	650	400/650	800	1830	700	1160	1340
MPSH 20/40	2050	4,00	2,0°	30	5,5	650	400/650	800	2580	700	1160	1520
MPSH 25/30	2550	3,00	1,8°	30	5,5	650	400/650	800	3080	700	1160	1790
MPSH 30/30	3050	3,00	1,75°	30	5,5	650	400/650	800	3580	700	1160	2020
MPSH 40/20	4050	2,00	1,5°	30	5,5	650	400/650	800	4580	700	1160	2610



# Workshop machine

## Punching machines

### ALFRA PRESS APS 60

Hydraulic punching unit with automatic return stroke

#### Technical data

Max. hole ø mm	18 mm
Max. material thickness ST 42	10 mm
Total punching time with pump SC 05 II	env. 7 sec
with pump SC 17	env. 4 sec
Throat depth	60 mm
Max. pressure	700 kg/cm <sup>2</sup> (10000 psi)
Punching power	22 t
Punch stroke	16 mm
Weight	17 kg

APS 60 punching unit, control cable and hydraulic hose 5 m, spanner, punch and die ø 14 mm.



### ALFRA PRESS APS 70

Hydraulic punching unit with automatic return stroke

#### Technical data

Max. hole ø mm	22 mm
Oblong holes max.	22 x 14 mm
Max. material thickness	13 mm
Total punching time with pump SC 05 II	env. 10 sec
with pump SC 17	env. 5 sec
Throat depth	70 mm
Max. pressure	700 kg/cm <sup>2</sup> (10000 psi)
Punching power	30 t
Punch stroke	18 mm
Weight	21 kg

APS 70 punching unit, control cable and hydraulic hose 5 m, spanner, punch and die ø 18 mm, depth fence, suspension hook.



### ALFRA PRESS APS 120

Hydraulic punching unit with automatic return stroke

#### Technical data

Max. hole ø mm	25 mm
Oblong holes max.	25 x 18 mm
Max. material thickness	16 mm
Total punching time with pump SC 05 II	env. 15 sec
with pump SC 17	env. 8 sec
Throat depth	110 mm
Max. pressure	700 kg/cm <sup>2</sup> (10000 psi)
Punching power	44 t
Punch stroke	25 mm
Weight	35 kg

APS 120 punching unit, control cable and hydraulic hose 5 m, spanner, punch and die ø 22 mm, depth fence, suspension hook.

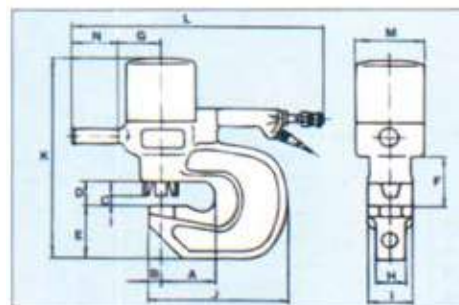


#### Important technical notice :

The APS punching units are not suitable for punching high-tensile tool steels, stainless steels or boiler plates.

Ask for our technical advice for punching jobs in this application range.

Type	A	B	C	D	E	F	G	H	I	J	K	L	M	N
APS 60	60	17	12	51	73	92	75	40	74	162	360	552	110	135
APS 70	70	24	15	51	85	100	80	40	80	204	382	562	125	135
APS 120	110	25	18	51	111	110	80	68	100	285	442	585	144	135



# Workshop machine

## Coil cuttingline



### Coil-cuttingline type LDP 1250

#### Complete full automatic cutting line type LDP 1250.

One pulling - straightening unit with 5 straightening rollers connected through one gearbox and driven from a 3,0 kW motor.  
Speed 5 m/min.

One mechanical shear with a 3,0 kW motor and capacity of 1250 x 3,0 mm normal mild sheet metal.

One unit with rolling shears from 0 to 4 set for long cutting strips min. width 100 mm.

Option : Decoiler with mechanical brake for 5T or 8T. Inside coil diameter : 460 - 560 mm.

Capacity for the complete line is determined from number of rolling shears.

4 rolling shears means max. sheet thickness of 1,0 mm

2 rolling shears means max. sheet thickness of 1,5 mm

0 rolling shears means max. sheet thickness of 2,0 mm

Tolerance on the length-measure is : +/- 0,5 mm.

To have the max. production from the line we recommend a production area of 12 x 3 m.

#### Consisting of main components :

Cuttingline LDP 1250, 3 x 440 V, 50 Hz, operating speed 5 m / min.

Rolling shear, max. Number is 4 set, that means 5 sheetstrips.

Decoiler, capacity 5T or 8T for 1250 mm width.

# Workshop machine

## Folding machines



**KFL 2010**



**KFL 1015**



**TBS 07/12**

### Folding machines type KFL & TB

Type S = with segments

Type	Working length	Sheet thickness 400 N/mm <sup>2</sup>	Max. clamping bar lift	Folding angle	Length	Width	Height	Weight
	mm	mm	mm	Degree	mm	mm	mm	kg
TBL 10/10	1030	1,00	42	135°	1250	570	1000	85
TBL 07/20	650	2,00	38	135°	860	510	1000	65
TBH 07/15	650	1,50	35	95°	860	510	1040	69
TBS 07/12	650	1,25	42	95°	860	510	1070	78
KFL 1015	1050	1,50	40	135°	1260	510	1000	89
TBH 10/12	1050	1,25	42	95°	1260	510	1040	98
TBS 10/10	1050	1,00	35	95°	1260	510	1070	111
TBL 13/12	1350	1,25	28	135°	1560	510	1000	108
TBH 13/10	1350	1,00	35	95°	1560	510	1040	115
TBS 13/10	1350	1,00	35	95°	1560	510	1070	135
TBL 15/10	1520	1,50	45	135°	1860	650	1100	330
KFL 2010	2020	1,00	42	135°	2320	630	1100	325
TBL 25/10	2520	1,00	42	135°	2940	630	1100	385
TBL 30/10	3070	1,00	45	135°	3440	630	1100	460

# Workshop machine

## Folding machines



**TFS 25/16**



**KFS 1025**



**TFS 20/12**

### Folding machines type TF & KFS

Type TFS & KFS = fitted with a segment-divided clamping beam for box & pan folding.

Type	Working length	Sheet thickness 400 N/mm <sup>2</sup>	Max. clamping bar lift	Folding angle	Length	Width	Height	Weight
	mm	mm	mm	Degree	mm	mm	mm	kg
TF 10/15	1020	1,50	33	150°	1188	685	1048	115
TFS 10/15	1020	1,50	33	135°	1188	685	1048	125
TF 10/25	1020	2,50	46	150°	1350	860	1170	275
KFS 1025	1020	2,50	47	135°	1350	860	1170	290
TF 12/20	1270	2,00	46	150°	1600	900	1175	325
KFS 1220	1270	2,00	47	135°	1600	900	1175	340
TF 20/12	2020	1,25	45	150°	2375	685	1150	495
TFS 20/12	2020	1,25	47	135°	2375	685	1150	495
TF 20/20	2020	2,00	122	150°	2567	560	1265	1020
TFS 20/20	2020	2,00	122	135°	2567	560	1265	1020
TF 25/16	2520	1,60	122	150°	3072	560	1265	1254
TFS 25/16	2520	1,60	122	135°	3072	560	1265	1254

# Workshop machine

## Folding machines



**KF3S 1025**



### Folding machines type KF3S MULTIFLEX

The MULTIFLEX models are with segment-divided clamp-, lower- and fold beams for holding materials in inverse directions and for making special profiles. The segments can be adjusted from 25 mm width up till the full length with 5 mm increments.

Type	Working length	Sheet thickness 400 N/mm <sup>2</sup>	Max. clamping bar lift	Folding angle	Length	Width	Height	Weight
	mm	mm	mm	Degree	mm	mm	mm	kg
KF3S 1025	1020	2,50	47	100° / 150°	1350	860	1250	385
KF3S 1220	1270	2,00	47	100° / 150°	1600	900	1250	415



# Workshop machine

## Motorised folding machines



**TSM 20/30**

### Motorised folding machines type TSM

Type TSM      Sharp nose blade  
 Type TSM S H      High segmented blade  
 Type TSM 3 S      Multiflex with all beams segmented

Type	Working length	Max. sheet thickness	Max. clamping bar lift	Motor clamping	Motor folding	Length	Width	Height	Weight
	mm	mm	mm	kW	kW	mm	mm	mm	kg
TSM 12/40	1270	4,00	200	0,75	3,00	2185	1070	1530	2300
TSMS 12/40 H	1270	4,00	91	0,75	3,00	2185	1070	1530	2300
TSM3S 12/40	1270	4,00	91	0,75	3,00	2185	1070	1530	2320
TSM 15/35	1520	3,50	200	0,75	3,00	2435	1070	1530	2800
TSMS 15/35 H	1520	3,50	91	0,75	3,00	2435	1070	1530	2800
TSM3S 15/35	1520	3,50	91	0,75	3,00	2435	1070	1530	2820
TSM 20/30	2020	3,00	200	0,75	3,00	2935	1070	1530	3100
TSMS 20/30 H	2020	3,00	91	0,75	3,00	2935	1070	1530	3100
TSM 25/25	2520	2,50	200	0,75	3,00	3435	1070	1530	3700
TSMS 25/25 H	2520	2,50	91	0,75	3,00	3435	1070	1530	3700
TSM 30/20	3020	2,00	200	0,75	3,00	3935	1070	1530	4300
TSMS 30/20 H	3020	2,00	91	0,75	3,00	3935	1070	1530	4300

# Workshop machine

## Motorised folding machines



**TFMS 20/15**

### Motorised folding machines type TFM

Type TFM      Sharp nose blade  
 Type TFMS    Low segments blade  
 Type TFMS H   High segment blade

Type	Working length	Sheet thickness 400 N /mm <sup>2</sup>	Max. clamping bar lift	Motor clamping	Motor folding	Length	Width	Height	Weight
	mm	mm	mm	kW	kW	mm	mm	mm	kg
TFM 10/22	1020	2,25	100	0,37	0,75	1670	625	1120	660
TFMS 10/22	1020	2,25	100	0,37	0,75	1670	625	1120	660
TFMS 10/22 H	1020	2,25	100	0,37	0,75	1670	625	1120	660
TFM3S 10/22	1020	2,25	100	0,37	0,75	1670	625	1120	680
TFM 12/20	1270	2,00	100	0,37	0,75	1920	625	1120	720
TFMS 12/20	1270	2,00	100	0,37	0,75	1920	625	1120	720
TFMS 12/20 H	1270	2,00	100	0,37	0,75	1920	625	1120	720
TFM3S 12/20	1270	2,00	100	0,37	0,75	1920	625	1120	740
TFM 15/17	1520	1,75	100	0,37	0,75	2170	625	1120	770
TFMS 15/17	1520	1,75	100	0,37	0,75	2170	625	1120	770
TFMS 15/17 H	1520	1,75	100	0,37	0,75	2170	625	1120	770
TFM3S 15/17	1520	1,75	100	0,37	0,75	2170	625	1120	790
TFM 20/15	2020	1,50	100	0,37	0,75	2670	625	1170	1010
TFMS 20/15	2020	1,50	100	0,37	0,75	2670	625	1170	1010
TFMS 20/15 H	2020	1,50	100	0,37	0,75	2670	625	1170	1010
TFM 25/10	2520	1,00	100	0,37	0,75	2670	625	1170	1260
TFMS 25/10	2520	1,00	100	0,37	0,75	3170	625	1170	1260
TFMS 25/10 H	2520	1,00	100	0,37	0,75	3170	625	1170	1260
TFM 30/10	3020	1,00	100	0,37	0,75	3670	625	1205	1560
TFMS 30/10	3020	1,00	100	0,37	0,75	3670	625	1205	1560
TFMS 30/10 H	3020	1,00	100	0,37	0,75	3670	625	1205	1560

# Workshop machine

## Motorised folding machines



**KSM 6/3000**

### Motorised folding machines type KSM

Type	Working length	Max. sheet thickness 400 N/mm <sup>2</sup>	Max. clamping bar lift	Motor clamping	Motor folding	Length	Width	Height	Weight
	mm	mm	mm	kW	kW	mm	mm	mm	kg
KSM 3/3000	3020	3,00	200	2,20	4,00	4500	900	1400	4430
KSM 3/3500	3520	3,00	200	2,20	5,50	5000	900	1400	5100
KSM 4/2000	2020	4,00	200	1,50	4,00	3500	900	1400	3930
KSM 4/3000	3020	4,00	200	2,20	5,50	4500	900	1400	4990
KSM 5/2500	2520	5,00	200	2,20	5,50	4000	900	1400	4730
KSM 5/3000	3020	5,00	200	3,00	7,50	4500	900	1400	5200
KSM 5/3500	3520	5,00	400	3,00	2 X 4,00	4550	900	1700	7400
KSM 6/2000	2020	6,00	200	2,20	5,50	3500	900	1400	3820
KSM 6/3000	3020	6,00	400	3,00	2 X 4,00	4550	900	1700	7600
KSM 7/1500	1520	7,00	200	2,20	4,00	2450	900	1400	3500
KSM 8/2000	2020	8,00	400	3,00	2 X 4,00	3500	900	1400	6800
KSM 8/3000	3020	8,00	400	3,00	2 X 5,50	4550	900	1700	7800

# Workshop machine

## Bending rollers



TTA 10/10



TTE 10/15

### Bending rollers type TTA & TTE

#### The TTA bending rollers.

are manual machines, standard with base and gearing for more effective rolling of sheets up to 1,5 mm thickness.

#### The TTE bending rollers.

are motorised machines, standard with variable speed both forward and backwards, base and full safety equipment. Foot pedal for forwards and backwards operation and standard with a 0,75 kW brake motor.

Alle bending rolls type TTA & TTE are with asymmetrical positioning of the rolls. Standard with all rolls crowned to ensure uniform bendings and with 4 four grooves for rolling of wire profiles. The bending roll can be set diagonal for conical operations.

Type	Working length	Max. sheet thickness 400 N/mm <sup>2</sup>	ø Rolls	Length	Width	Height	Weight
	mm	mm	mm	mm	mm	mm	kg
TTA 6/06	675	0,60	30/35	1120	550	980	110
TTA 6/10	675	1,00	42/48	1120	550	980	125
TTA 6/15	675	1,50	50/55	1120	550	980	135
TTA 6/20	675	2,00	60/65	1120	550	980	175
TTA 10/10	1020	1,00	50/55	1450	550	980	170
TTA 10/15	1020	1,50	60/65	1450	550	980	185
TTA 12/12	1260	1,25	60/65	1690	550	980	205

Type	Working length	Max. sheet thickness 400 N/mm <sup>2</sup>	ø Rolls	Length	Width	Height	Weight
	mm	mm	mm	mm	mm	mm	kg
TTE 6/20	675	2,00	60/65	1120	550	980	215
TTE 10/10	1020	1,00	50/55	1450	550	980	220
TTE 10/15	1020	1,50	60/65	1450	550	980	240
TTE 12/12	1260	1,25	60/65	1690	550	980	280

# Workshop machine

## Bending rollers



### Bending rollers type RH + RM

**RM** : Motorised machines with symmetrically placed rolls. The lower rolls are fixed mounted. Robust and well dimensioned machines in a cast iron construction. From 1,0 m till 2,5 m length and up till 8 mm sheet thickness.

**RH** : Manual machines with symmetrically placed rolls. The lower rolls are fixed mounted. Robust and well dimensioned machines in a cast iron construction. From 1,0 m till 2,0 m length and up till 6,0 mm sheet thickness.

**Optional equipment for all models** Taper bending device, Trailing shoe, Motor-powered bending roll and lower roll, Hardened rolls, digital read-out.

We refer to our home page with specification for all models. Standard colour is green.

Type	Working length mm	Sheet thickness 400 N/mm <sup>2</sup>	ø Rolls mm	Motor kW	Weight kg	Chassis	Work speed m/min.
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#### MANUAL ROLLERS, SYMMETRICAL DISPOSITION OF CYLINDERS

RH 10/35	1025	3.50	90/80	-	295	Incl.	-
RH 10/50	1020	5.00	100/90	-	410	Incl.	-
RH 10/60	1020	6.00	110/100	-	460	Incl.	-
RH 12/30	1275	3.00	90/80	-	330	Incl.	-
RH 12/40	1270	4.00	100/90	-	450	Incl.	-
RH 12/50	1270	5.00	110/100	-	510	Incl.	-
RH 15/25	1525	2.50	90/80	-	355	Incl.	-
RH 15/35	1520	3.50	100/90	-	490	Incl.	-
RH 15/40	1520	4.00	110/100	-	560	Incl.	-
RH 17/15	1775	1.50	90/80	-	400	Incl.	-
RH 17/25	1770	2.50	100/90	-	530	Incl.	-
RH 17/30	1770	3.00	110/100	-	610	Incl.	-
RH 20/10	2025	1.00	90/80	-	435	Incl.	-
RH 20/15	2020	1.50	100/90	-	570	Incl.	-
RH 20/20	2020	2.00	110/100	-	660	Incl.	-

#### MOTORIZED ROLLERS, SYMMETRICAL DISPOSITION OF CYLINDERS

RM 10/35	1025	3.50	90/80	0.75	310	Incl.	6.0
RM 10/50	1020	5.00	100/90	1.1	430	Incl.	6.0
RM 10/60	1020	6.00	110/100	1.1	480	Incl.	6.0
RM 10/70	1020	7.00	120/110	1.5	670	Incl.	6.0
RM 10/80	1020	8.00	130/120	1.5	725	Incl.	6.0
RM 12/30	1275	3.00	90/80	0.75	345	Incl.	6.0
RM 12/40	1270	4.00	100/90	1.1	470	Incl.	6.0
RM 12/50	1270	5.00	110/100	1.1	530	Incl.	6.0
RM 12/60	1270	6.00	120/110	1.5	730	Incl.	6.0
RM 12/70	1270	7.00	130/120	1.5	795	Incl.	6.0
RM 15/25	1525	2.50	90/80	0.75	380	Incl.	6.0
RM 15/35	1520	3.50	100/90	1.1	510	Incl.	6.0
RM 15/40	1520	4.00	110/100	1.1	580	Incl.	6.0
RM 15/50	1520	5.00	120/110	1.5	790	Incl.	6.0
RM 15/60	1520	6.00	130/120	1.5	865	Incl.	6.0
RM 17/15	1775	1.50	90/80	0.75	415	Incl.	6.0
RM 17/25	1770	2.50	100/90	1.1	550	Incl.	6.0
RM 17/30	1770	3.00	110/100	1.1	630	Incl.	6.0
RM 17/40	1770	4.00	120/110	1.5	850	Incl.	6.0
RM 17/50	1770	5.00	130/120	1.5	935	Incl.	6.0
RM 20/10	2025	1.00	90/80	0.75	450	Incl.	6.0
RM 20/15	2020	1.50	100/90	1.1	590	Incl.	6.0
RM 20/20	2020	2.00	110/100	1.1	680	Incl.	6.0
RM 20/30	2020	3.00	120/110	1.5	910	Incl.	6.0
RM 20/40	2020	4.00	130/120	1.5	1005	Incl.	6.0
RM 25/10	2520	1.00	110/100	1.1	780	Incl.	6.0
RM 25/15	2520	1.50	120/110	1.5	1030	Incl.	6.0
RM 25/20	2520	2.00	130/120	1.5	1145	Incl.	6.0



# Workshop machine

## Swaging machines

**S 250/50**



**SM 250/50**



### Swaging machines S and SM

Robust cast iron construction with high quality steel shafts and a large tool steel gauge.

SM 250/50 standard with 2-speed motor and a pedestal base.

Optional : Circle cutting attachment type RS 850 with max.  $\varnothing$  800 mm and min.  $\varnothing$  60 mm. Full range of forming and cutting wheels

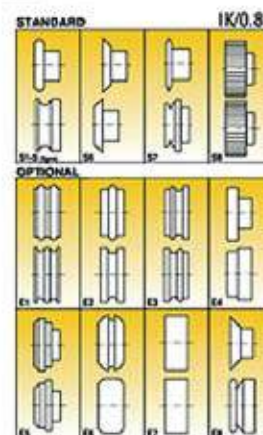
Type	Capacity	Throat depth	Centre distance	Motor 230/400 V	2 speed	Weight
	mm	mm	mm	kW	o. / min.	kg
S 250/50	1,00	250	50	--	--	310
SM 250/50	1,00	250	50	0,25 / 0,37	38/77	565



### Flanging and beading machines

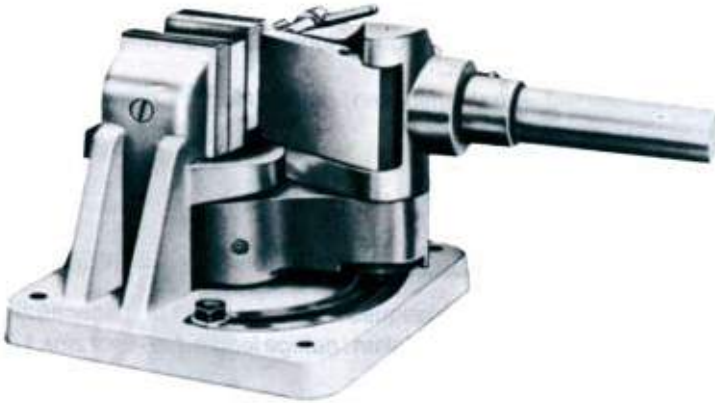
Handoperated or motorized

Sheet thickness	m/m	2
Working depth	mm	300
Distance between shaft centres	mm	135
Hole diameter of ro	mm	70
Hand machine weight	kg	80
Motor power	CV	1
Hand operated		Price on request
Driven motor		Price on request



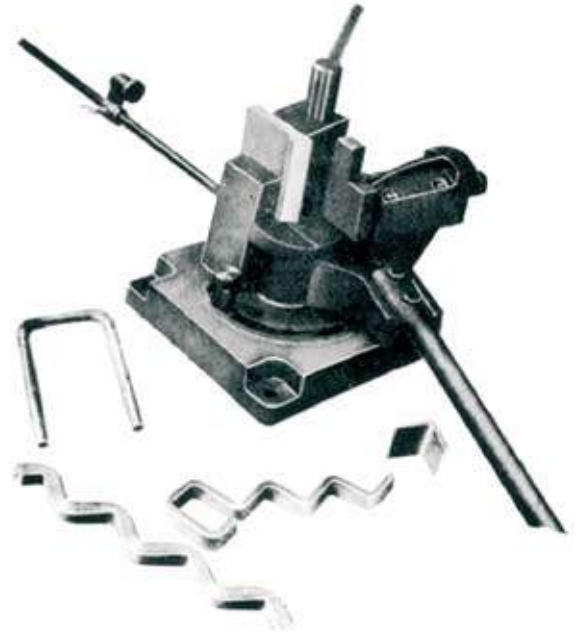
# Workshop machine

## Iron benders



### Iron benders

- Cast iron frame
- Supply with standard bending block
- Bending angle from 0 to 115°.
- Stubborn of adaptable angle.



#### 20803 Clamping with screw

Maximum capacity		Cold	Hot
Flat-section steel	mm	100 x 10	100 x 22
Square section steel	mm	22	30
Round section steel	mm	25	30
Angle section steel	mm	100 x 10	100 x 20
Netto weight	kg	38	38

#### 20804 Spiral bender - with 3 different matrixs

Maximum capacity cold (steel 45 kg/mm<sup>2</sup>)

- 10 mm
- 10 mm
- 30 x 10 mm



# Workshop machine

## Hydraulic steel worker

### MODEL HKM 45

TECHNICAL DATA	HKM 45
Motor power	4 kW
Weight	1300 kg
Machine dimensions	720 x 600 x 7400 mm

### PUNCHING

Power (Pressure)	45 tonnes
Diameter in max. thickness	ø 22 x 15 mm
Diameter in min. thickness	ø 100 x 3 mm
Stroke	50 mm
Stroke count in 16 mm	20 / tours / minute
Throat depth	175 mm
Working height	940 mm

### SHEET METAL SHEAR

Sheet metal	200 x 15 mm
Sheet metal	300 x 12 mm
Bladed length	396 mm
Shearing with angle	80 x 10 mm
Working height	940 mm

### SECTION SHEAR

Angle section (90°)	100 x 10 mm
With special blade	100 x 12 mm
Angle section (45°)	70 x 6 mm
Working height	1140 mm

### STEEL BAR SHEARING

Round / square	ø 25 x 25 mm
	30 mm

### NOTCHING

Thickness	8 mm
Width	35 mm
Depth 90°	60 x 75 mm
Angle flange	80 x 8 mm
Working height	940 mm

### SPECIAL TOOLS

Punching on notcher	
Material x diameter	12 x ø 18 mm
Special notching tool	100 x 100 x 6 mm
Pipe notching	ø 83 mm
U-I section blades	80 x 45 mm
T section blades	40 x 6 mm

Capacities are for ST 42 material.

We reserve the right to make changes without notice.



# Workshop machine

## Hydraulic Plate bending machines



### Model 3RHS

3 rolls hydraulic plate bending machines

Position of conical curve

System of variation of the speed in the infinity

Model	Min. Diameter = Top Roll ø x 5			Min. Diameter = Top Roll ø x 1,5			Bottom rolls ø	Motor power	Working speed	Dimensions	Weight
	Usefull lenght	Without prebending	With prebending	Without prebending	With prebending	Top roll ø					
3R HS 20-210	2050	10	8	6	210	190	7.5	5	2700 x 1100 x 1250	3800	
3R HS 20-240	2050	13	10	8	240	220	7.5	5	3300 x 1250 x 1350	5600	
3R HS 20-280	2050	16	13	10	280	260	7.5	5	3400 x 1250 x 1500	7600	
3R HS 20-300	2050	20	16	13	300	280	11	5	3850 x 1420 x 1680	8100	
3R HS 25-210	2550	8	6	4	210	190	7.5	5	3200 x 1100 x 1250	4200	
3R HS 25-240	2550	10	8	6	240	220	7.5	5	3800 x 1250 x 1350	6100	
3R HS 25-280	2550	13	10	8	280	260	7.5	5	3900 x 1250 x 1500	7200	
3R HS 25-300	2550	16	13	10	300	280	11	5	4450 x 1420 x 1680	9100	
3R HS 30-210	3100	6	4	3	210	190	7.5	5	3700 x 1100 x 1250	4700	
3R HS 30-240	3100	8	6	4	240	220	7.5	5	4300 x 1250 x 1350	6600	
3R HS 30-280	3100	10	8	6	280	260	7.5	5	4400 x 1250 x 1500	8500	
3R HS 30-300	3100	13	10	8	300	280	11	5	4950 x 1420 x 1680	9900	
3R HS 40-240	4100	4	3	2	240	220	7.5	5	5300 x 1250 x 1350	7600	
3R HS 40-280	4100	6	4	3	280	260	7.5	5	5400 x 1250 x 1500	10800	
3R HS 40-300	4100	8	6	4	300	280	11	5	5950 x 1420 x 1680	11800	



# Workshop machine

## Bending machines for profile and pipe

### Model PK 30 F / 30 S

#### Bending machines for profile and pipe

#### PK 30 S

- Hand switch
- Special bar twist attachment
- Horizontal working position

#### Standard specifications

- Two rolls are powered
- Rolls are hardened
- Rolls shafts are special steel material hardened and grinded
- Standard rolls
- Guide rolls
- Double- speed motor
- Horizontal and vertical working position
- User's manual book

#### Special features

- Pipe/tube bending rolls
- Profile bending rolls
- Angle bending rolls
- Digital read-out
- Special lateral angle guides



Model		PK 30
Shaft diameters	ø mm	30
Lower roll diameter	ø mm	118
Upper roll diameter	ø mm	148
Motor rotation	t/mn	3 - 6
Motor power	kW	0,7 - 0,85
Weight	Kg	220
Length	mm	650
Width	mm	500
Height	mm	1400



# Workshop machine

## Bending machines for profile and pipe

### Model PK 35 F / 35 S

#### Bending machines for profile and pipe

##### PK 35 F

- Foot pedal

##### PK 35 S

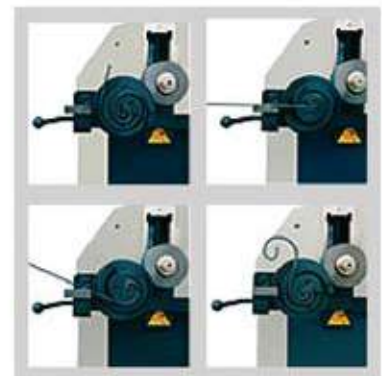
- Hand switch

#### Standard specifications

- Spheroid cast iron frame
- Two rolls are powered
- Rolls are hardened
- Rolls shafts are special steel material hardened and grinded
- Standard rolls
- Guide rolls
- Horizontal and vertical working position
- User's manual book

#### Special features

- Pipe/tube bending rolls
- Profile bending rolls
- Angle bending rolls
- Digital read-out
- Special lateral angle guides



Model		PK 35
Shaft diameters	ø mm	50
Roll diameter	ø mm	155
Motor rotation	t/mn	4,5
Motor power	kW	1,5
Weight	Kg	350
Length	mm	660
Width	mm	900
Height	mm	1355

# Workshop machine

## Hydraulic section and pipe bending machine

### Model HPK 50 - 60

#### Hydraulic section and pipe bending machine

##### Standard specifications

- Steel welded construction frame
- 3 rolls are powered
- Hardened shafts from special steel
- Top roll hydraulic moveable
- Horizontal and vertical working position
- Standard rolls
- Guide rolls
- Brake motor
- Mobile control panel
- User's manual

##### Special features

- Pipe/tube bending rolls
- Profile bending rolls
- Angle bending rolls
- Digital read-out
- Special lateral angle guides

Model		HPK 50	HPK 60
Shaft diameters	ø mm	50	60
Lower roll diameter	ø mm	162	215
Top roll diameter	ø mm	152	215
Hydraulic power	tonnes	8	16
Working speed	m/min	4,5	4
Motor power	kW	1,12	1,5
Length	mm	810	830
Width	mm	950	1140
Height	mm	1500	1650
Weight	Kg	510	860



# Workshop machine

## Hydraulic section bending machine

### Model HPK 80

#### Hydraulic section bending machine

- Horizontal working position

#### Standard specifications

- Three rolls are powered
- Steel construction frame
- Rolls shafts are special steel material
- Rolls are hardened and grinded
- Horizontal and vertical working position
- Brake motor equipped
- Standard rolls
- Mobile control panel
- 3-Axis mechanical lateral angle guide rolls
- User's manual book
- Digital read-outs (2 pcs.)

#### Special features

- Pipe, tube and profile bending rolls
- Hydraulic lateral guide rolls (2 axis)



Model		HPK 80
Shaft diameters	ø mm	70
Roll diameters	ø mm	245
Motor rotation	t/mn	8
Motor power	kW	4
Weight	Kg	1500
Length	mm	950
Width	mm	1400
Height	mm	1300

# Workshop machine

## Woodworking machines

### THICKNESSING MACHINE S 350 - S 400 - S 500

#### Technical data S 350

Working table	350 x 635 mm
Hight max. to planer	210 mm
Useful thickness	7 mm
Shaft rotation speed	4900 rpm
3-knives cutterhead	ø 87,5 mm
Feeding speeds	6,5 - 13 m/l'
Motor	2,2 kW (3CV)
Net weight	260 kg
Overall dimensions	650 x 820 x 960 mm
Packing sizes	700 x 910 x 1100 mm

#### Technical data S 400

Working table	400 x 640 mm
Hight max. to planer	240 mm
Useful thickness	8 mm
Shaft rotation speed	4700 rpm
4-knives cutterhead	ø 110 mm
Feeding speeds	6,5 - 13 m/l'
Motor	3 kW (4 HP)
Net weight	370 kg
Overall dimensions	900 x 850 x 1040 mm
Packing sizes	970 x 880 x 1180 mm

#### Technical data S 500

Working table	500 x 800 mm
Hight max. to planer	240 mm
Useful thickness	8 mm
Shaft rotation speed	4700 rpm
4-knives cutterhead	ø 110 mm
Feeding speeds	6,5 - 13 m/l'
Motor	4 kW (5,5 HP)
Net weight	480 kg
Overall dimensions	1000 x 920 x 1040 mm
Packing sizes	950 x 1070 x 1180 mm

#### Standard equipment

Knife adjustment  
Service spanners

#### Optional

Motor power  
2 rollers on the table with micrometric adjustm.  
Automatic lifting table for S 400 - S 500  
«TERSA» shaft  
\*Suction hood ø 120 mm  
\*Standard for CE version



# Workshop machine

## Woodworking machines

### THICKNESSING MACHINE S 520 - S 630

#### Technical data S 520

Table dimensions	520 x 800 mm
Automatic lifting table	
Max. height of thickness	250 mm
Min. height of thickness	4 mm
Max depth of cut thicknesser	8 mm
Shaft rotation speed	4700 rpm
4-knives cutterhead	ø 120 mm
4 forwarding speeds	5-8-11-14 m/l'
Motor power	4 kW (5,5 HP)
Net weight	530 kg
Overall dimensions	1100 x 940 x 1050 mm
Packing sizes	1170 x 970 x 1190 mm



#### Technical data S 630

Table dimensions	630 x 900 mm
Automatic lifting table	
Max. height of thickness	300 mm
Min. height of thickness	4 mm
Max depth of cut thicknesser	10 mm
Shaft rotation speed	5900 rpm
4-knives cutterhead	ø 120 mm
Forwarding speeds	0 ÷ 20 m/l'
Motor power	5,5 kW (7,5 HP)
Net weight	800 kg
Overall dimensions	1270 x 1070 x 1200 mm
Packing sizes	1340 x 1100 x 1340 mm

### Standard equipment

Knife adjustment  
Service spanners

### Optional

Motor power  
2 rollers on the table  
Tersa-knife cutterhead  
\*Suction hood ø 120 mm

\*Standard for CE version



# Workshop machine

## Woodworking machines

### COMBINED SURFACE-THICKNESS F 400

#### Technical data F 400

Table dimensions	2000 x 400 mm
3-knives cutterhead	ø 87,5 mm
Cutterhead speed rpm	4900
Fence tilting up to	0° ÷ 45°
Motor power	3 kW (4 HP)
Net weight	345 kg
Overall dimensions	2000 x 800 x 1030 mm
Packing dimensions	2110 x 830 x 1030 mm



### MORTISING UNIT (on request)

Mortising table dimension	540 x 250 mm
Longitudinal motion	200 mm
Transversal motion	170 mm
Vertical motion	190 mm
Boring spindle	16 mm

### Standard equipment

Knife adjustment  
Safety devices  
Service spanners

### Optionals

Motor power : 4 kW (5,5 HP)  
Tersa-knife cutterhead  
\*Shaving hood ø 120 mm  
\*Westcott boring spindle 0-16 mm  
\*Standard for CE version

# Workshop machine

## Woodworking machines

### SURFACE PLANER F 400 PL - F 500 PL

#### Technical data F 400 PL

Table dimensions	2500 x 400 mm
4-knives cutterhead	ø 120 mm
Cutterhead speed rpm	4700
Fence tilting up to	0° ÷ 45°
Translating fence with handwheel	
Max. depth of cut : standard : 20 mm	CE version 7 mm
Motor power	3 kW (4 HP)
Net weight	550 kg
Overall dimensions	2500 x 750 x 1060 mm
Packing sizes	2650 x 760 x 1050 mm



#### Technical data F 500 PL

Table dimensions	2900 x 500 mm
4-knives cutterhead	ø 120 mm
Cutterhead speed rpm	4700
Fence tilting up to	0° ÷ 45°
Translating fence with handwheel	
Max. depth of cut : standard : 20 mm	CE version 7 mm
Motor power	4 kW (5,5 HP)
Net weight	670 kg
Overall dimensions	2900 x 850 x 1060 mm
Packing sizes	3050 x 860 x 1050 mm

### MORTISING UNIT (on request)

Mortising table dimension	560 x 260 mm
Longitudinal motion	240 mm
Transversal motion	170 mm
Vertical motion	190 mm
Boring spindle	16 mm
*Westcott boring spindle	0-20 mm

### Standard equipment

Knife adjustment  
Safety devices  
Service spanners

### Optionals

Motor power for F 400 PL : 4 kW (5,5 HP)  
Motor power for F 500 PL : 5,5 kW (7,5 HP)  
Tersa-knife cutterhead  
\*Suction hood ø 120 mm

\*Standard for CE version

# Workshop machine

## Woodworking machines

### COMBINED SURFACE-THICKNESS MACHINE FS 300

#### Technical data FS 300

#### SURFACE PLANER

Table dimensions	1450 x 300 mm
3-knives cutterhead	ø 70 mm
Cutterhead speed rpm	5400
Fence tilting up to	0° ÷ 45°
Contemporary opening planer table	
Motor power	1,5 kW (2 HP)

#### THICKNESS PLANER

Table dimensions	500 x 300 mm
Max. height of thickness	200 mm
Min. height of thickness	4 mm
Max depth of cut thicknesser	5 mm
Forward speed	6,5 m/l'

Net weight	210 kg
Overall dimensions	1450 x 700 x 1000 mm
Packing sizes	1590 x 730 x 1190 mm

#### MORTISING UNIT (on request)

Mortising table dimension	360 x 210 mm
Longitudinal motion	105 mm
Transversal motion	105 mm
Vertical motion	95 mm
Wescott boring spindle	0 ÷ 16 mm

#### Standard equipment

Knife adjustment  
Safety devices  
Service spanners

#### Optionals

Motor power 2,2 kW (3 HP)  
Single phase motor  
Tersa-knife cutterhead  
\*Suction hood ø 120 mm

\*Standard for CE version



# Workshop machine

## Woodworking machines

### COMBINED SURFACE-THICKNESS FS 400

#### Technical data FS 400

#### SURFACE PLANER

Table dimensions	2000 x 400 mm
3-knives cutterhead	ø 87,5 mm
Cutterhead speed rpm	4900
Fence tilting up to	0° ÷ 45°
Contemporary opening planer table	
Motor power	3 kW (4 HP)

#### THICKNESS PLANER

Table dimensions	630 x 400 mm
Max. height of thickness	190 mm
Min. height of thickness	4 mm
Max depth of cut thicknesser	7 mm
Forwarding speed (2)	6,5 - 13 mt/l'

Net weight	460 kg
Overall dimensions	2000 x 880 x 1030 mm
Packing dimensions	2110 x 830 x 1030 mm

#### MORTISING UNIT (on request)

Mortising table dimension	540 x 250 mm
Longitudinal motion	200 mm
Transversal motion	170 mm
Vertical motion	190 mm
Boring spindle	ø 16 mm

#### Standard equipment

Knife adjustment

Safety devices

Service spanners

#### Optionals

Motor power : 4 kW (5,5 HP)

Tersa-knife cutterhead

Rollers on thickness table

\*Westcott boring spindle : 0-16 mm

\*Shaving hood ø 120 mm

\*Standard for CE version



# Workshop machine

## Woodworking machines

### COMBINED SURFACE-THICKNESS FS 400I - FS 500

#### Technical data FS 400-I SURFACE PLANER

Table dimensions	2000 x 400 mm
3-knives cutterhead	ø 87,5 mm
Cutterhead speed rpm	4900
Fence tilting up to	0° ÷ 45°
Contemporary opening planer table	
Motor power	3 kW (4 HP)

#### THICKNESS PLANER

Table dimensions	630 x 400 mm
Max. height of thickness	190 mm
Min. height of thickness	4 mm
Max depth of cut thicknesser	7 mm
Forwarding speed (2)	6,5 - 13 mt./l'

Net weight	460 kg
Overall dimensions	2000 x 880 x 1030 mm
Packing dimensions	2110 x 830 x 1030 mm

#### Technical data FS 500 SURFACE PLANER

Table dimensions	2300 x 500 mm
4-knives cutterhead	ø 110 mm
Cutterhead speed rpm	4700
Fence tilting up to	0° ÷ 45°
Translating fence with handwheel	
Contemporary opening planer table	
Motor power	4 kW (5,5 HP)

#### THICKNESS PLANER

Table dimensions	800 x 500 mm
Max. height of thickness	240 mm
Min. height of thickness	3 mm
Max depth of cut thicknesser	8 mm
Forwarding speed (2)	6,5 - 13 m/l'

Net weight	800 kg
Overall dimensions	2320 x 880 x 1125 mm
Packing sizes	2420 x 1060 x 1070 mm

#### MORTISING UNIT (on request)

Mortising table dimension	540 x 250 mm
Longitudinal motion	200 mm
Transversal motion	170 mm
Vertical motion	190 mm
Boring spindle	ø 16 mm

#### Standard equipment

Knife adjustment  
Safety devices  
Service spanners

#### Optionals

Motor power for FS 400 : 4 kW (5,5 HP)  
Motor power for FS 500 : 5,5 kW (7,5 HP)  
Automatic lifting thickness table FS 500  
Tersa-knife cutterhead  
Rollers on thickness table  
\*Westcott boring spindle 0 ÷ 16 mm  
\*Shaving hood ø 120 mm  
\*Standard for CE version





# Workshop machine

## Woodworking machines

### CIRCULAR SAW SC 25

#### Technical data SC 25

Table dimensions	790 x 450 mm
Saw blade	ø 250 mm
Tilting saw	0° ÷ 45°
Max. height of cut saw 90°	80 mm
Max. height of cut saw 45°	50 mm
Saw spindle	ø 30 mm
Saw spindle speed rpm	4200
Aluminium reversible saw fence	240 mm
Max. stroke of sliding table	1200 mm
Motor power	1,5 kW (2 HP)
Net weight	190 kg
Overall dimensions	2000 x 1900 x 1500 mm
Packing sizes	1600 x 860 x 1070 mm



#### Standard equipment

Widia saw blade

Safety devices

Service spanners

#### Optionals

Single phase motor

Motor power - Automatic motor brake

Saw extension table with 850 or 1250 mm

\*Suction hood ø 120 mm

\*Standard for CE version

# Workshop machine

## Woodworking machines

### CIRCULAR SAW SC 130 - SC 160 - SC 210 - SC 250

#### Technical data

#### SC 130 - SC 160 - SC 210 - SC 250

Fixed table dimensions	1100 x 480 mm
Sliding table dimensions SC 130	290 x 1300 mm
Sliding table dimensions SC 160	290 x 1600 mm
Sliding table dimensions SC 210	290 x 2100 mm
Sliding table dimensions SC 250	290 x 2500 mm
Saw blade diam.	ø max. 315 - min. 250 mm
Saw blade arbor diam.	ø 30 mm
Saw blade tilting	0° ÷ 45°
Saw blade speed	4300 rpm
Max. depth of cut at 90°	100 mm
Max. depth of cut at 45°	70 mm
Crosscutting capacity SC 130	1300 mm
Crosscutting capacity SC 160	1600 mm
Crosscutting capacity SC 210	2100 mm
Crosscutting capacity SC 250	2500 mm
Size of squaring table frame	580 x 1000 mm
Motor power saw	2,2 kW (3 HP)
Net weight SC 130	510 kg
Net weight SC 160	530 kg
Net weight SC 210	550 kg
Net weight SC 250	570 kg
Overall dimensions SC 130	2130 x 2450 x 90 mm
Overall dimensions SC 160	2400 x 2450 x 90 mm
Overall dimensions SC 210	2650 x 2450 x 90 mm
Overall dimensions SC 250	2850 x 2450 x 90 mm
Packing sizes SC 130	1750 x 1030 x 1040 mm
Packing sizes SC 160	2020 x 1030 x 1040 mm
Packing sizes SC 210	2370 x 1030 x 1040 mm
Packing sizes SC 250	2770 x 1030 x 1040 mm



#### Standard equipment

Widia saw blade diam. ø 300 mm

Safety devices

Service spanners

#### Optionals

Motor power

\*Brake motor

Scoring unit : diam. 80 mm - shaft 20 mm - 8000 rpm

Sliding table extension

Saw extension table with 1100 or 1250 mm cut

Protection saws in parallelogram

\*Shaving hood ø 120 mm

\*Standard for CE version

# Workshop machine

## Woodworking machines



### CIRCULAR SAW

KI 2500 - KI 3200 - KI 35-2500 - KI 35-3200

#### Technical data KI 2500

Size of table	880 x 600 mm
Size of sliding table	2500 x 290 mm
Ø Saw blade	Ø 315 mm
Ø Saw shaft	Ø 30 mm
Saw blade tilting	0° ÷ 45°
Speed of blade	4300 rpm
Useful height cut at 90°	100 mm
Useful height cut at 45°	70 mm
Useful cut between blade and fence	590 mm
Useful tenoning stroke	2500 mm
Size of squaring table frame	660 x 1340 mm
Motor power	3 kW (4 HP)
Net weight	700 kg
Overall dimensions	2700 x 2550 x 860 mm
Packing sizes	2850 x 1080 x 1000 mm

#### Technical data KI 3200

Size of table	880 x 600 mm
Size of sliding table	3200 x 290 mm
Ø Saw blade	Ø 315 mm
Ø Saw shaft	Ø 30 mm
Saw blade tilting	0° ÷ 45°
Speed of blade	4300 rpm
Useful height cut at 90°	100 mm
Useful height cut at 45°	70 mm
Useful cut between blade and fence	590 mm
Useful tenoning stroke	3200 mm
Size of squaring table frame	660 x 1340 mm
Motor power	3 kW (4 HP)
Net weight	780 kg
Overall dimensions	3335 x 2550 x 860 mm
Packing sizes	3485 x 1080 x 1000 mm

### Standard equipment

Widia saw blade  
Safety devices  
Service spanners

#### Technical data KI 35-2500

Size of table	880 x 600 mm
Size of sliding table	2500 x 290 mm
Ø Saw blade maxi	Ø 350 mm
Ø Saw shaft	Ø 30 mm
Saw blade tilting	0° ÷ 45°
Speed of blade	4300 rpm
Useful height cut at 90°	116 mm
Useful height cut at 45°	85 mm
Useful cut between blade and fence	590 mm
Useful tenoning stroke	2500 mm
Size of squaring table frame	660 x 1340 mm
Motor power	4 kW (5,5 HP)
Net weight	720 kg
Overall dimensions	2700 x 2550 x 860 mm
Packing sizes	2850 x 1080 x 1000 mm

#### Technical data KI 35-3200

Size of table	880 x 600 mm
Size of sliding table	3200 x 290 mm
Ø Saw blade	Ø 350 mm
Ø Saw shaft	Ø 30 mm
Saw blade tilting	0° ÷ 45°
Speed of blade	4300 rpm
Useful height cut at 90°	116 mm
Useful height cut at 45°	85 mm
Useful cut between blade and fence	590 mm
Useful tenoning stroke	3200 mm
Size of squaring table frame	660 x 1340 mm
Motor power	4 kW (5,5 HP)
Net weight	800 kg
Overall dimensions	3335 x 2550 x 860 mm
Packing sizes	3485 x 1080 x 1000 mm

### Optionals

Motor power  
\*Brake motor  
Scoring unit : 0,37 kW, diam. 80 mm - shaft 20 mm - 8000 rpm  
Saw extension table with cut 1480 mm  
\*Suction hood Ø 100 mm  
\*Standard for CE version

# Workshop machine

## Woodworking machines



### CIRCULAR SAW WITH TILTING BLADE SQ 2500 - SQ 3200 - SQ 3800

#### Technical data SQ 2500 - SQ 3200 - SQ 3800

Fixed worktable dimensions	1000 x 650 mm
Sliding table dimensions SQ 2500	2500 x 375 mm
Sliding table dimensions SQ 3200	3200 x 375 mm
Sliding table dimensions SQ 3800	3800 x 375 mm
Crosscutting capacity SQ 2500	2500 mm
Crosscutting capacity SQ 3200	3200 mm
Crosscutting capacity SQ 3800	3800 mm
Size of squaring table frame	580 x 1335 mm
Saw blade diameter max.	400 mm
Saw blade arbor diameter	30 mm
Saw blade tilting	0° ÷ 45°
Digital display for blade tilting	
Saw blade speed	4200 rpm
Max. depth of cut at 90° with saw blade ø 400 mm	140 mm
Max. depth of cut at 45° with saw blade ø 400 mm	95 mm
Saw motor power	4 kW (5,5 HP)
Net weight SQ 2500	790 kg
Net weight SQ 3200	830 kg
Net weight SQ 3800	860 kg

### Standard equipment

Widia saw blade ø 300 mm

Safety devices

Service spanners

### Optionals

Motor power

\*Brake motor

\*Shaving hood ø 120 mm

Motorised scoring unit :  
0,33 kW (0,5 HP) diam. 80 mm - shaft 20 mm - 8000 rpm.

Motorised saw-blade elevation 0,18 kW (0,25 HP)

Angle of motorised saw blade 0,25 kW (0,35 HP)

Digital display for blade lifting

Laser beam

Saw extension table with cut 1500 mm

2 rotation speeds with quick external change :

3600/4200 rpm

Fence for sloped cuts

\*\* Saw parallelogram protection

\*Standard for CE version    \*\*Mandatory for CE version with ø 400 mm blade

# Workshop machine

## Woodworking machines



### COMBINED CIRCULAR SAW-SPINDLE MOULDER ST 25 Technical data ST 25 CIRCULAR SAW

Table dimensions	780 x 450 mm
Saw blade	ø 250 mm
Tilting saw	0° ÷ 45°
Max. height of cut saw 90°	80 mm
Max. height of cut saw 45°	50 mm
Saw spindle	ø 30 mm
Saw spindle speed	4200 rpm
Useful cut between blade and fence	235 mm
Crosscutting capacity	1300 mm
Size of squaring table frame	640 x 450 mm
Motor power	1,5 kW (2 HP)

### SPINDLE-MOULDER

Shaft rotation speed	3000-6200-8000 rpm
Diameter of spindle	30 mm
Diameter of table hole	190 mm
Max. height of spindle	140 mm
Motor power	1,5 kW (2CV)
Net weight	285 kg

### Standard equipment

Widia saw blade  
Safety devices  
Service spanners

### Optionals

Single phase motors  
Motors power  
\*Brake motors  
\*Shaving hood ø 120 mm  
Diameter of spindle different of 30 mm  
Sliding table on supporting arm  
Tenoning plate  
Saw extension table with cut 850 or 1250 mm  
\*Standard for CE version



# Workshop machine

## Woodworking machines

### COMBINED CIRCULAR SAW-SPINDLE MOULDER

#### ST 130 - ST 160 - ST 210 - ST 250

#### Technical data ST130 - ST160 - ST210 - ST250

Fixed table dimensions	11000 x 480 mm
Saw blade diameter	max. 315 mm - min. 250 mm
Saw blade arbor diam.	30 mm
Saw blade tilting	0° ÷ 45°
Saw blade speed	4300 rpm
Max. depth of cut at 90°	100 mm
Max. depth of cut at 45°	70 mm
Crosscutting capacity ST 130	1300 mm
Crosscutting capacity ST 160	1600 mm
Crosscutting capacity ST 210	2100 mm
Crosscutting capacity ST 250	2500 mm
Size of squaring table frame	530 x 670 mm
Spindle-moulder speed	3000-6200-8000 rpm
Diam. of spindle	30 mm
Spindle usable length	120 mm
Max. profiling cutter diameter	180 mm
Max. tenoning cutter diameter	250 mm
Motor power saw	2,2 kW (3 HP)
Motor power spindle-moulder	2,2 kW (3 HP)
Net weight ST 130	580 kg
Net weight ST 160	600 kg
Net weight ST 210	620 kg
Net weight ST 250	640 kg
Overall dimensions ST 130	2130 x 2450 x 90 mm
Overall dimensions ST 160	2400 x 2450 x 90 mm
Overall dimensions ST 210	2650 x 2450 x 90 mm
Overall dimensions ST 250	2850 x 2450 x 90 mm
Packing sizes ST 130	1750 x 1030 x 1040 mm
Packing sizes ST 160	2020 x 1030 x 1040 mm
Packing sizes ST 210	2370 x 1030 x 1040 mm
Packing sizes ST 250	2770 x 1030 x 1040 mm



### Standard equipment

Widia saw blade  
Safety devices  
Service spanners

### Optionals

Motors power  
\* Brake motor  
Scoring unit : diam. 80 mm - shaft 20 mm - 8000 rpm  
Sliding table extension  
Tenoning plate with safety guard  
Saw extension table with 1100 or 1250 mm cut  
Diameter of spindle 35 - 40 - 50 mm  
\* Shaving hood ø 120 mm  
\*Standard for CE version

# Workshop machine

## Woodworking machines



### SPINDLE-MOULDER SF 80

#### Technical data SF 80

Table dimensions	850 x 650 mm
Diameter of spindle	ø 30 mm
Diameter of table hole	190 mm
Microadjustable fence with shaving hood attachment	ø 120 mm
Max. height of spindle	155 mm
External spindle locking device	
Spindle speed	3000 - 6200 - 8000 rpm
Motor power	2,2 kW (3 HP)
Net weight	220 kg
Overall dimensions	850 x 800 x 1520 mm
Packing sizes	970 x 770 x 1030 mm

#### Standard equipment

Safety devices  
Service spanners

#### Optionals

Motor power  
\*Automatic motor brake  
Diameter of spindle different of 30 mm  
Spindle slot 6 x 70 mm  
Sliding table on supporting arm  
Tenoning plate  
\*Spindle speed indicator  
\*Special spindle safety guard  
\*Shifting electrical control panel  
\*Standard for CE version

# Workshop machine

## Woodworking machines



### SPINDLE MOULDER SF 110

#### Technical data SF 110

Table dimensions	1100 x 900 mm
Spindle	ø 35 mm
Table hole	ø 230 mm
Microadjustable fence with shaving hood attachment	ø 150 mm
Max. height of spindle	150 mm
Spindle speed	2500 - 3200 - 4500 - 6200 - 8000 rpm
Motor power	3 kW (4 HP)
Net weight	540 kg
Overall dimensions	1100 x 900 x 1520 mm
Packing dimensions	1200 x 990 x 1030 mm

#### Standard equipment

Safety devices

Service spanners

#### Optionals

Motor power

\*Automatic motor brake

Interchangeable MK5 spindle

Diameter of spindle different of ø 35 mm

\*Spindle speed indicator

\*Special spindle safety guard

\*Shifting electrical control panel

\*Standard for CE version

# Workshop machine

## Woodworking machines



### SPINDLE MOULDER with front sliding table SF 110 CF

#### Technical data SF 110 CF

Fixed table dimensions	1100 x 650 mm
Sliding table dimensions	1200 x 295 mm
Spindle	ø 35 mm
Table hole	ø 275 mm
Microadjustable fence with shaving hood attachment	ø 150 mm
Max. height of spindle	150 mm
Spindle speed	2500 - 3200 - 4500 - 6200 - 8000 rpm
Max. profiling cutter diam.	220 mm
Max. tenoning cutter diam.	270 mm
Safety guard for working near the spindle	
Spindle fence guard, CE type	
Electronic spindle speed indicator	
Motor power	3 kW (4 HP)
Net weight	560 kg
Overall dimensions	1200 x 1050 x 1520 mm
Packing dimensions	1300 x 1150 x 1060 mm

#### Standard equipment

Safety devices

Service spanners

#### Optionals

Motor power

\*Automatic motor brake

Interchangeable MK5 spindle

Diameter of spindle different of ø 35 mm

\*Spindle speed indicator

\*Special spindle safety guard

\*Shifting electrical control panel

\*Standard for CE version

# Workshop machine

## Woodworking machines



### SPINDLE-MOULDER with prolonged table SF 110 PL

#### Technical data SF 110 PL

Table dimensions	2500 x 900 mm
Diameter of spindle	ø 35 mm
Diameter of table hole	ø 230 mm
Microadjustable fence with shaving hood attachment	ø 150 mm
Max. height of spindle	150 mm
Spindle speed	2500 - 3200 - 4500 - 6200 - 8000 rpm
Motor power	3 kW (4 HP)
Net weight	650 kg
Overall dimensions	2500 x 1050 x 1520 mm
Packing sizes	2600 x 1130 x 1030 mm

#### Standard equipment

Safety devices

Service spanners

#### Optionals

Motor power

\*Automatic motor brake

Interchangeable MK5 spindle

Diameter of spindle different of ø 35 mm

\*Spindle speed indicator

\*Special spindle safety guard

\*Shifting electrical control panel

\*Standard for CE version



# Workshop machine

## Woodworking machines



### SPINDLE-MOULDER with tenoning sliding table SF 110 T

#### Technical data SF 110 T

Table dimensions	1100 x 900 mm
Tenoning sliding table : sizes of working table	880 x 300 mm
Tenoning sliding table : stroke of working table	750 mm
Spindle	ø 50 mm
Table hole	ø 330 mm
Microadjustable fence with shaving hood attachment	ø 150 mm
Max. height of spindle	150 mm
Spindle speed	2500 - 3200 - 4500 - 6200 - 8000 rpm
Motor power	3 kW (4 HP)
Net weight	690 kg
Overall dimensions	1600 x 1500 x 1520 mm
Packing sizes	1720 x 1280 x 1060 mm

#### Standard equipment

Safety devices  
Service spanners

#### Optionals

Motor power  
\*Automatic motor brake  
Interchangeable MK5 spindle  
Diameter of spindle different of ø 50 mm  
Right hand side extension 700 x 450 mm  
\*Spindle speed indicator  
\*Special spindle safety guard  
\*Shifting electrical control panel  
\*Standard for CE version

# Workshop machine

## Woodworking machines



### UNIVERSAL COMBINED WOODWORKING

#### MACHINE C 400 MI

#### Technical data C 400 MI

##### SURFACE PLANER

Table dimensions	2000 x 400 mm
Contemporary opening planer table	
3-knives cutterhead	ø 87,5 mm
Cutterhead speed	4900
Fence tilting up to	0° ÷ 45°

##### THICKNESS PLANER

Table dimensions	630 x 400 mm
Max. height of thickness	210 mm
Min. height of thickness	4 mm
Max. depth of cut thicknesser	7 mm
Forwarding speed	6,5 - 13 m/l'

##### SAW - SPINDLE-MOULDER

Fixed table dimensions	1110 x 480 mm
Sliding table dimensions	290 x 1300 mm
Saw blade ø max.	315 mm
Saw blade arbor diam.	30 mm
Saw blade tilting	0° ÷ 45°
Saw blade speed	4300 t/min
Max. depth of cut at 90°	100 mm
Max. depth of cut at 45°	70 mm
Useful cut between blade and fence	460 mm
Crosscutting capacity	1300 mm
Spindle-moulder speed	3000 - 6200 - 8000 rpm
Diameter of spindle	30 mm
Diameter of table hole	260 mm
Max. height of spindle	140 mm

Motors power :	
Surface-thickness	2,2 kW (3 HP)
Saw	2,2 kW (3 HP)
Spindle-moulder	2,2 kW (3 HP)
Net weight	860 kg

#### Standard equipment

Widia saw blade  
Safety devices  
Service spanners

#### Optionals

Motors power  
Scoring unit : 0,37 kW, diam. 80 mm, shaft 20 mm, 8000 rpm.  
Sliding table extension  
Sliding table length : 1600 - 2100 - 2500 mm  
Diameter of spindle : 35 - 40 - 50 mm  
Tenoning plate with safety guard  
Tersa-knife cutterhead  
2 rollers on thickness table

# Workshop machine

## Woodworking machines



### UNIVERSAL COMBINED WOODWORKING MACHINE C 500MI

#### Technical data C 500MI

##### SURFACE PLANER

Table dimensions	2300 x 500 mm
Contemporary opening planer table	
4-knives cutterhead	ø 110 mm
Cutterhead speed rpm	4700
Fence tilting up to	0° ÷ 45°

##### THICKNESS PLANER

Table dimensions	800 x 500 mm
Max. height of thickness	240 mm
Min. height of thickness	4 mm
Max. depth of cut thicknesser	8 mm
Forwarding speed (2)	6,5 - 13 m/l'

##### SAW - SPINDLE MOULDER

Fixed table dimensions	1110 x 480 mm
Sliding table dimensions	290 x 1300 mm
Saw blade ø max.	315 mm
Saw blade arbor diam.	30 mm
Saw blade tilting	0° ÷ 45°
Saw blade speed	4300 rpm
Max. depth of cut at 90 °	100 mm
Max. depth of cut at 45 °	70 mm
Useful cut between blade and fence	460 mm
Crosscutting capacity	1300 mm
Spindle-moulder speed	300 - 6200 - 8000 rpm
Diameter of spindle	30 mm
Diameter of table hole	260 mm
Max. height of spindle	140 mm

Motors power :	
Surface-thickness	3 kW (4 HP)
Saw	3 kW (4 HP)
Spindle-moulder	3 kW (4 HP)
Net weight	1230 kg

##### Standard equipment

Widia saw blade

Safety devices

Service spanners

##### Optionals

Motors power

Scoring unit : 0,37kW, diam. 80 mm, shaft 20 mm, 8000 rpm

Sliding table extension

Sliding table length : 1600 - 2100 - 2500 mm

Diameter of spindle : 35 - 40 - 50 mm

Tenoning plate with safety guard

Tersa-knife cutterhead

2 rollers on thickness table

# Workshop machine

## Woodworking machines



### BAND-SAWS

#### SC 500 - SC 600 - SC 700 - SC 800 - SC 900

	U.M.	SC 500	SC 600	SC 700	SC 800	SC 900
Wheels diameter	mm	500	600	700	800	900
Wheels speed	rpm	750	730	660	640	540
Max. band length	mm	4170	4560	5030	5650	6280
Motor power	kW - (HP)	1,5 - (2)	2,2 - (3)	3 - (4)	4 - (5,5)	5,5 - (7,5)
Max. height of cut	mm	320	390	420	440	500
Max. width of cut	mm	480	580	680	780	880
Max. blade width	mm	35	35	45	45	60
Table dimensions	mm	490 x 640	590 x 790	660 x 1000	760 x 1140	810 x 1200
Net weight	kg	255	305	470	580	760

# Workshop machine

## Woodworking machines



### BAND-SAW WITH FEEDER SCR 900

	U.M.	Without feeding device	With feeding device Mod. SR06	With feeding device Mod. SR013	With feeding device Mod. SR026
Wheels diameter	mm	900	900	900	900
Wheels speed	rpm	540	540	540	540
Max. band length	mm	6280	6280	6280	6280
Motor power	kW - (HP)	12 - (15)	12 - (15)	12 - (15)	12 - (15)
Max. height of cut	mm	500	500	500	500
Max. width of cut	mm	880	150	200	200
Max. blade width	mm	80	80	80	80
Table dimensions	mm	800 x 1200	800 x 1200	800 x 1200	800 x 1200
Height of table from floor	mm	1030	1030	1030	1030
Table inclination	degrees	15°	15°	15°	15°
Sawdust hoods	Nr. - mm	2 - ø 103	2 - ø 103	2 - ø 103	2 - ø 103
Net weight	kg	800	835	875	895



# Workshop machine

## Woodworking machines

### DB 1100

- The twist-free greycast iron engine bed provides for high smoothness in running and accuracy
- Tailstock and spindle stock are also made of stable grey cast iron
- Wide, easy-to-adjust tool rest
- Tailstock with quick-action lever and handwheel
- Tailstock (lift 50 mm) serial with follow lathe centre
- Tailstock centre sleeve with a hole to machine long workpieces
- Variable speed regulation from 500 to 2000 l/min. with digital speed display
- The tailstock is slewable at 180°
- Perfect for turing of large diameters
- Lockable emergency-stop

#### Technical data

Max. turning-ø	mm	358
Bed height	mm	179
Distance between centres	mm	1100
Spindle head thread		1 x 8 TPI
Speed/min.	rpm	500 - 2000
Speed levels		traploos
Engine power 50 Hz	W	750
Morse cone	MK	2
Dimensions	mm	1620 x 340 x 430
Weight	kg	92

### DB 450 and DB 900

- Construction solide en acier / fonte
- Moteurs performants de 230 V
- Les tours à bois Holzstar produisent peu de bruit et peu de vibrations

#### DB 450

- The twist-free grey cast iron engine bed provides for high smoothness of running and accuracy
- Tailstock and spindle stock are also made of stable grey cast iron
- Incl. easy-to-adjust tool rest
- Optional with a distance between centres of 1000 mm
- Tailstock (lift 50 mm) - serial with follow lathe centre
- Tailstock spindle sleeve with a hole to machine long workpieces
- Speed adjustment, 4 speeds with V-belt
- Very quiet and smooth running

#### DB 900 pour applications professionnelles :

- Plage de vitesses variable de 500 à 2000 rpm
- Avec affichage digitale des rpm
- Le bloc avec le mandrin sait tourner 180°
- La contre poupée est fixée avec un serrage rapide
- Accessoires de série :
- Porte-outil pour outils de 30 mm
- Disque à égaliser de 15 cm de diamètre
- Pointe tournante
- Pied de la machine

#### Technical data

		DB 450	DB 900
Max. turning-ø	mm	254	306
Bed height	mm	127	153
Distance between centres	mm	450	900
Spindle head thread		1 x 8 TPI	1 x 8 TPI
Speed/min.	rpm	500 - 3150	500 - 2000
Speed levels		4	traploos
Engine power 50 Hz	W	370	550
Morse cone	MK	2	2
Dimensions	mm	820 x 300 x 430	1380 x 330 x 430
Weight	kg	38	80



DB 450



DB 900



With dirigible support











# Workshop machine

## Compressor units









### MOD. P 52/1 - P 60/1

These models are made with cylinder in cast iron and valves at lamella.

These models are made with symmetrical cast iron and valves at 14mm/14.															
MOD.		CIL.		STADI	CILIN.										
	l/min	CFM	N.	N.	cm³	cu.in.	mm	mm	HP	U/MIN	bar	PSI	A x B x C mm	kg	lb
P 52/1	120	4.26	1	1	85	5.18	52	40	1	1400	8-10	116/145	160x200x300	6	13.2
P 60/1	160	8.68	1	1	115	7.01	60	40	1.5	1400	8-10	116/145	160x200x300	6,5	14.3









### MOD. P 52/2 - P 60/2

These models are made with cylinder in cast iron and valves at lamella.

These models are made with cylinder in cast iron and valves at full size.															
MOD.		CIL.		STADI	CILIN.										
	l/min	CFM	N.	N.	cm³	cu.in.	mm	mm	HP	U/MIN	bar	PSI	A x B x C mm	kg	lb
P 52/2	200	7.10	2	1	170	10.37	52+52	40	1.5	1200	8-10	116/145	330x220x260	8.5	18.7
P 60/2	280	9.94	2	1	230	14.03	60+60	40	2	1200	8-10	116/145	330x220x260	9	19.8









### MOD. P 70/2

With cylinder and heads in cast iron and valves at disk.

MOD.		CIL.		STADI	CILIN.										
	l/min	CFM	N.	N.	cm³	cu.in.	mm	mm	HP	U/MIN	bar	PSI	A x B x C mm	kg	lb
P 70/2	390	13.84	2	1	385	23.48	70+70	50	3	990	8	116	380x300x300	15	33
P 70/2	430	15.26	2	1	385	23.48	70+70	50	4	1100	8	116	380x300x300	15	33









### MOD. P 110/110 - P 110/110 SCP

These compressors are made with head, cylinder and flywheel in cast iron. For the model P 110/110 the valves there are disk-type, for the model P 110/110 SCP there are Hoerbiger-type concentric valve presser. This model is used on the building and agriculture sector.

MOD.		CIL.		STADI	CILIN.											
	l/min	CFM	N.	N.	cm³	cu.in.	mm	mm	HP	U/MIN	bar	PSI	A x B x C mm	kg	lb	
P 110/110	1614	57.29	2	1	1614	98.45	110+110	85	10	1000	8	116	610x450x450	63	139	
P 110/110 SCP	1775	63.01	2	1	1614	98.45	110+110	85	10	1100	8	116	610x450x450	63	139	

### MOD. P 120/120 - P 120/120 SCP

These compressors are made with head, cylinder and flywheel in cast iron. For the model P 120/120 the valves there are disk-type, for the model P 120/120 SCP there are Hoerbiger-type concentric valve presser. This model is used on the building and agriculture sector.

This model is used on the building and agriculture sector.															
MOD.		CIL.		STADI	CILIN.										
	l/min	CFM	N.	N.	cm³	cu.in.	mm	mm	HP	U/MIN	bar	PSI	A x B x C mm	kg	lb
P 120/120	2200	78.10	2	1	2040	124.44	120+120	90	12.5	1100	8	116	710x600x540	97	213.4
P 120/120 SCP	2448	86.90	2	1	2040	124.44	120+120	90	12.5	1200	8	116	710x600x540	97	213.4












# Workshop machine

## Coaxial compressor units

### MOD. P 45/1 CH - P 52/1 CH - P 52/1 CZ










These models are made with cylinder in cast iron and valves at lamella.

These models are made with cylinder in cast iron and valves at 1/4 inch.															
MOD.		CIL.	STADI	CILIN.											
	l/min	CFM	N.	N.	cm³	cu.in.	mm	mm	HP	U/MIN	bar	PSI	A x B x C mm	kg	lb
P45/1 CH	142	5.04	1	1	51	3.11	45	32	1.5	2800	8	116	360x190x300	13	28.6
P52/1 CH	190	6.74	1	1	68	3.96	52	32	2	2800	8	116	360x190x300	13	28.6
P52/1 CZ	240	8.52	1	1	85	5.18	52	40	2.5	2800	8	116	360x190x300	14	30.8



### MOD. P 52-1 CM «Monofase/trifase»










These models are made with cylinder in cast iron and valves at lamella.

These models are made with cylinder in cast iron and valves at lateral.															
MOD.		CIL.	STADI	CILIN.											
	l/min	CFM	N.	N.	cm³	cu.in.	mm	mm	HP	U/MIN	bar	PSI	A x B x C mm	kg	lb
P52/1 CM	120	4.26	1	1	85	5.18	52	40	1	1400	8	116	360x190x300	15	33.8



### MOD. P 52/2 C «Monofase/trifase»







These models are made with cylinder in cast iron and valves at lamella

These models are made with cylinder in cast iron and valves at fanhead															
MOD.			CIL.	STADI	CILIN.										
	l/min	CFM	N.	N.	cm³	cu.in.	mm	mm	HP	U/MIN	bar	PSI	A x B x C mm	kg	lb
P52/2 C	240	8.52	2	1	170	10.37	52+52	40	2	1400	8	116	390x300x250	20	48.4



### Compact automatic compressor

For autoclaves and plaster machines.

MOD.						
	l/min	HP	bar	kg	U/MIN	B x A x C mm
P2 ACF	120	1	10	18	1400	370 x 200 x 330









This model is made with cylinder in cast iron and valves at lamella.

# Workshop machine

## Compressor units - Two stages











### MOD. P 43/85

This model is made with cylinder and head in cast iron and disk-type valves.

MOD.			CIL.	STADI	CILIN.		 AP/BP					 B A C			
	l/min	CFM	N.	N.	cm³	cu.in.	mm	mm	HP	U/MIN	bar	PSI	A x B x C mm	kg	lb
P43/85	380	13.49	2	2	340	20.74	43/85	60	3	980	12	174	280x270x340	17	50.6









### MOD. P 52/105

This model is made with cylinder and head in cast iron and a disk-type valves.

MOD.			CIL.	STADI	CILIN.		 AP/BP			 HP	 U/MIN	 bar	 PSI	 A x B x C mm	 kg	
	l/min	CFM	N.	N.	cm³	cu.in.	mm	mm								
P52/105	570	19.88	2	2	650	39.66	52/105	76	4	872	12	174	350x340x540	32	70.4	
P52/105	630	22.36	2	2	650	39.66	52/105	76	5.5	970	12	174	350x340x540	32	70.4	










### MOD. P 60/110 - P 60/110 S

These compressors are made with head, cylinder and flywheel in cast iron. In the model P 60/110 there are disk-type valves. In the model P 60/110 S are mounted Hoerbiger-type concentric valve. This model is used also at high pressure (max. 30 bar).

MOD.			CIL.		STADI		CILIN.									
	l/min	CFM	N.	N.	cm³	cu.in.	mm	mm	HP	U/MIN	bar	PSI	A x B x C mm	kg	lb	
P60/110	840	31.59	2	2	807	49.22	60/110	85	7.5	1035	12	174	590x450x450	60	132	
P60/110S	890	34.36	2	2	807	49.22	60/110	85	7.5	1100	12	174	590x450x450	60	132	

### MOD. P 60/120 - P 60/120 S

These compressors are made with head, cylinder and flywheel in cast iron. In the model P 60/120 there are disk-type valves. In the model P 60/120 S are mounted Hoerbiger-type concentric valve. This model is used also at high pressure (max. 30 bar).

MOD.		CIL.		STADI	CILIN.											
		l/min	CFM		N.	N.	cm³	cu.in.	mm	mm	HP	U/MIN	bar	PSI	A x B x C mm	kg
P60/120		1173	41.64	2	2	1020	62.22	60/120	90	10	1150	12	174	700x600x540	92	202.4
P60/120S		1312	46.57	2	2	1020	62.22	60/120	90	12.5	1287	12	174	700x600x540	93	204.6











# Workshop machine

## Base-mounted compressor

### MOD. P 52/1 B - P 60/1 B







With non return valve - One-cylinder base-mounted compressor  
Fairing version on request

MOD.						
		HP	bar	kg		B x A x C
P 52/1 B	L/1' 120	1	8	21	1400	60 x 33 x 40
P 60/1 B	L/1' 160	1,5	8	23	1400	60 x 33 x 40



### MOD. P 52/2 B - P 60/2 B - P 70/2 BS







With non return valve - Twin-cylinder base-mounted compressor  
Fairing version on request

MOD.						
		HP	bar	kg		B x A x C
P 52/2 B	L/1' 200	1,5	8	24	1200	60 x 33 x 40
P 60/2 B	L/1' 280	2	8	26	1200	60 x 33 x 40
P 70/2 BS	L/1' 430	4	8	35	1100	70 x 39 x 38



### MOD. P 43/85 B







With non return valve - Two stage base-mounted compressor  
Fairing version on request

MOD.						
		HP	bar	kg		B x A x C
P 43/85 B	L/1' 340	3	10	41	980	66 x 38 x 48



### MOD. P 52/105 B - P 52/105 BS







With non return valve - Two stage base-mounted compressor  
Fairing version on request

MOD.						
		HP	bar	kg		B x A x C
P 52/105 B	L/1' 570	4	10	64	872	76 x 42 x 64
P 52/105 BS	L/1' 630	5,5	10	66	970	76 x 42 x 64



### MOD. P 60/110 B - P 60/120 B - P 60/120 BS

With non return valve  
Two stage base-mounted compressor

MOD.						
		HP	bar	kg		B x A x C
P 60/110 B	L/1' 840	7,5	10	101	1035	91 x 47 x 56
P 60/120 B	L/1' 1130	10	10	189	1150	100 x 52 x 65
P 60/120 BS	L/1' 1250	12,5	10	215	1285	100 x 55 x 65





# Workshop machine

## Compressors



Coaxial air compressors  
Belt compressors  
Tandem compressors  
«Building» compressors  
Pistons compressors from 1 to 12,5 HP

### Coaxial air compressors

These patterns have been planned with electric engine coupled directly to the compressor. They are technologically advanced machines, powerful and silent. They present very compact, expect little surveillance and little maintenance.

They are ideal air compressors for small works o painting, washing and inflating jobs : for all works of a small firm. Cylinders are in special cast iron, the lubrication is automatic at slamming, valves are lamellar of steel inox. Pressure of exercise is of 8 bar for a few models can arrive at 10 bar. The control equipment comprehends :

- Pressure switch with on-off switch, safety valve, pressure reducer and pressure gauge.

Model	F C	L/1'		HP	kW	bar		kg	°/1'	A B C B x A x C
P 2 CPH	2	150	45/1 CH	1,5	1,1	8	230/1/50	16	2800	45 x 30 x 44
P 6 CPH	6	150	45/1 CH	1,5	1,1	8	230/1/50	22	2800	33 x 34 x 63
P 25 CH	24	150	45/1 CH	1,5	1,1	8	230/1/50	24	2800	58 x 31 x 64
P 25 CH2	24	200	52/1 CH	2	1,5	8	230/1/50	25	2800	58 x 31 x 64
P 50 CH	50	240	52/1 CZ	2,5	1,8	8	230/1/50	33	2800	95 x 42 x 72
P 15 F	15	120	51/1 Cm	1	0,75	8-10	230/1/50	28	1400	64 x 25 x 60
P 25 SACm	24	240	52/2 C	2	1,5	8	230/1/50	35	1400	79 x 34 x 57
P 50 ACm	50	240	52/2 C	2	1,5	8	230/1/50	50	1400	90 x 43 x 69
P 100 ACm	100	240	52/2 C	2,5	1,8	8	230/1/50	60	1400	120 x 46 x 78

# Workshop machine

## One-stage belt compressors



### One-stage belt compressors

1 or 2 cylinder air compressor led electric motor with a Vee-belt with shelter. Steel tank with standing feet or wheeled CEE rules teste. Fixed compressors are not equipped with pressure reducer but they have a fitting for its installation, if required. Control equipment include :

- Pressure switch complete with on-off switch, safety valve, pressure reducer and pressure gauge.

Model	F C	L/1'		HP	kW	bar		kg	C/1'	A B B x A x C
P 25 Cm	24	120	52/1	1	0,75	8	230/1/50	33	1400	87 x 33 x 63
P 25 CmX	24	150	60/1	1,5	1,1	8	230/1/50	34	1230	87 x 33 x 63
P 25 SCm	24	212	52/2	1,5	1,1	8	230/1/50	36	1240	87 x 33 x 60
P 25 SCmX	24	282	60/2	2	1,5	8	230/1/50	40	1224	84 x 34 x 60
P 50 Cm	50	212	52/2	1,5	1,1	8	230/1/50	48	1240	95 x 42 x 70
P 50 CmX	50	150	60/1	1,5	1,1	8	230/1/50	45	1230	95 x 42 x 75
P 50 SCm	50	282	60/2	2	1,5	8	230/1/50	48	1224	95 x 42 x 70
P 100 ECm	100	212	52/2	1,5	1,1	8	230/1/50	63	1240	117 x 47 x 79
P 100 CmX	100	282	60/2	2	1,5	8	230/1/50	63	1224	117 x 47 x 79
P 100 CmH	100	400	70/2	3	2,2	8	230/1/50	76	1000	117 x 47 x 82
P 150 CmH	150	400	70/2	3	2,2	8	230/1/50	89	1000	128 x 51 x 88
P 200 CmH	200	400	70/2	3	2,2	8	230/1/50	100	1000	143 x 54 x 92
P 200 CtH	200	480	70/2	4	3	8	400/3/50	101	1240	143 x 54 x 92

# Workshop machine

## Two stages belt compressors



### Two-stages belt compressors

These compressors are designed according to the most modern machine technology standards. Twostage processes guarantee 80% air delivery efficiency. The crankshaft is made of hot-forged steel or in spheroidal cast iron.

Automatic splash lubrication is used. The success of these compressors is closely tied to the special castiron alloy used to make the cylinders and the heads. Control equipment include :

Telepressure switch complete with on-off switch, safety valve, pressure reducer and pressure gauge.

Model	F C	L/1'		HP	kW	bar		kg	C/1'	A B C B x A x C
P 100 Ct	100	335	43/85	3	2,2	10	230-400/M/T	78	985	117 x 47 x 88
P 150 Ct	150	335	43/85	3	2,2	10	400/3/50	80	985	128 x 51 x 94
P 200 ECt	200	335	43/85	3	2,2	10	400/3/50	96	985	143 x 53 x 97
P 200 ECX	200	370	43/85	4	3	10	400/3/50	97	1070	143 x 53 x 97
P 200 Ct	200	570	52/105	4	3	10	400/3/50	120	872	143 x 53 x 117
P 300 Ct	270	570	52/105	4	3	10	400/3/50	134	872	155 x 64 x 123
P 300 SCt	270	630	52/105	5,5	4	10	400/3/50	136	970	155 x 64 x 123
P 500 Ft	500	840	60/110	7,5	5,5	10	400/3/50	235	1035	197 x 60 x 120
P 500 SFt	500	1180	60/120	10	7,5	10	400/3/50	292	1150	197 x 60 x 123

\* On request with star-delta starter



# Workshop machine

## Tandem compressors



### Tandem compressors

These models have been planned to guarantee to the maximum the continuity of delivery of the compressed air, with a low consumption of electric energy. Every machine is constituted from two compressor units two electrical motors. The compressors are very strong machines, with cylinders and heads in special cast iron and with steel valve at disk type with high performance.

The functioning of the compressors is automatic and reciprocating. The electrical apparatus is assembled in a metal box with timer-controlled motor protection switches, or, at requiry with star-delta starter and solenoide valves, block-cloor, switches and pressure switch. This apparatus orders and controls the good functioning of the machine.

Model	F	L/1'		HP	kW	bar		kg	1'	A B C B x A x C
P 500T	500	1150	P 52/105	4 + 4	3 + 3	10	400/3/50	272	872	197 x 60 x 117
P 500TH	500	1260	P 52/105	5,5 + 5,5	4 + 4	10	400/3/50	280	970	197 x 60 x 117
P 500TS	500	1670	P 60/110	7,5 + 7,5	5,5 + 5,5	10	400/3/50	345	1035	197 x 60 x 120

\* On request with star-delta starter

# Workshop machine

## Motor-driven compressors

### Motor-driven compressors for the building trade with ground protection













**P1500Et**

### Motor-driven compressors for the building trade with silenced internal combustion engines

These compressors are simple, economical, strong and easily serviced machines. The compressor units are the two-stage type with cast iron cylinders. The 4-stroke internal combustion engine is air-cooled and silenced. The pull start features an automatically winding rope (electrical starting 12 V optional). A special device controls motor oil, in case of the are insufficient on switch on a warning light and automatically the motor on stops. Both compressor and internal combustion engine are mounted on a tough steel base and are insulated from the frame by special vibration-damping elastic supports. The tank is equipped with safety valve. glycerine pressure gauge, condensate drain cock and two air taps. The quality of material used with the technology applied, guarantee the respect of the rules EEC regarding noise and safety. Control equipment include :

Circuit breaker «F5» discharge phase with non return valve that discharge on the outside the air produced from the pump when its reached the max pressure, pressure gauge, safety valve.









Model	 L	 L/1'		 HP	 kW	 bar		 kg	 C/1'	 A B B x A x C
P 400 EM	-	50	400	43/85	3	2,2	7	1200	58	83 x 60 x 70
P 650 Et	10	* 100	650	51/105	4	3	7	1000	72	83 x 60 x 76
P 860 Et	10	* 100	860	60/110	5,5	4	7	1050	145-158	100 x 76 x 97
P 1500 Et	10	* 200	1500	110/110	7,5	5,5	7	900	150-163	100 x 76 x 97
P 1700 Et	10	* 200	1700	110/110	10	7,5	7	1050	165-178	100 x 76 x 97
P 1700 Et	10	* 300	2200	120/120	12,5	9	7	1000	200	110 x 88 x 100

Noise level 75dB A/7, with 380 V thermal protector, on request with star-delta starter or inverter



**P1600ES**

**P500ES**

Model	 L		 L/1'		 HP	 bar	 C/1'	 kg	 A B B x A x C
P 500 ES	-	50	500	43/85	5,5	7	1340	77-88	90 x 61 x 70
P 700 ES	10	* 100	715	52/105	9	7	1100	108-128	100 x 61 x 80
P 900 ES	10	* 200	940	60/110	11	7	1160	158-190	110 x 74 x 95
P 1600 ES	10	* 200	1600	110/110	13	7	950	170-205	110 x 75 x 96

Noise level 78 dB A/7

On request version with tank



# Workshop machine

## Silent piston air compressors

«SO» SERIES 3 - 7,5 HP and «SV» SERIES 2 - 10 HP



### «SV» series silent piston air compressor

This line of air compressors is designed to resolve the problem of «noise» in work areas. The noise created by these silent piston air compressors is very low, and they can be installed right at the work station. They totally comply with CEE rules. Noise reduction is obtained by enclosing the machine inside a sound-proofing cabinet, made with special sound-absorbing panels.

Compression and cooling air intakes are through a duct made between the panels. «Noiseless» compressors do not differ mechanically from standard units, and give the same outputs.

Each is a self-contained compression unit, consisting of a piston compressor with head and cylinders in cast iron, an electrical motor, a small tank, and all control and regulation accessories; totally comply with international safety standard.

Compressors are compact, installed vertical to best exploit available space, produce very little noise, need no foundations, and are ready to use.



Compressors range goes from 2 to 10 HP in power rating. No specialists are needed to start them up : just connect it to a current collector and the compressor begins its silent operation.

### Typical standard system for quality compressed air








- ① Compressed air tank
- ② Drier
- ③ Noiseless air compressor
- ④ Automatic condensation discharge
- ⑤ Condensate separator with electronic auto drain
- ⑥ Oil separation filter 0,01 micron

### Technical features

Silent piston compressors series «SV» vertical.

The compressors with   starter are complete solenoid valve.



Model	dB		 L/I'	HP	kW	 C/1'	 bar		 kg	 A B B x A x C
** SV30/ACm	65	P52/2	240	2	1,5	1400	8	230/1/50	85	132 x 41 x 77
** SV30/ACt	65	P52/2	240	2	1,5	1400	8	400/3/50	85	132 x 41 x 77
SV60/2M	65	P60/2	280	2	1,5	1230	8	230/1/50	69	70 x 50 x 79
SV60/2t	65	P60/2	280	2	1,5	1230	8	400/3/50	68	70 x 50 x 79
SV43/85M	65	P43/85	310	3	2,2	890	10	230/1/50	84	70 x 50 x 79
SV43/85t	65	P43/85	340	3	2,2	985	10	400/3/50	81	70 x 50 x 85
SV52/105E	64	P52/105	500	4	3	872	10	400/3/50	130	86 x 60 x 104
SV52/105	65	P52/105	560	5,5	4	970	10	400/3/50	132	86 x 60 x 104
SV60/110	70	P60/110	860	7,5	5,5	1035	10	400/3/50	185	86 x 74 x 117
SV60/120	70	P60/120	1200	10	7,5	1150	10	400/3/50	261	97 x 80 x 130
SV52/105st°	65	P52/105	560	5,5	4	970	10	400/3/50	132	86 x 60 x 114
SV60/110st°	70	P60/110	860	7,5	5,5	1035	10	400/3/50	185	86 x 74 x 117
SV60/120st°	70	P60/120	1200	10	7,5	1150	10	400/3/50	265	97 x 80 x 130
SV52/105st*	65	P52/105	560	5,5	4	970	10	230/3/50	132	86 x 60 x 114
SV60/110st*	70	P60/110	860	7,5	5,5	1035	10	230/3/50	185	86 x 74 x 117
SV60/120st*	70	P60/120	1200	10	7,5	1150	10	230/3/50	265	97 x 80 x 130

° With   starter 400/3/50 and   starter 230/3/50

\*\* With internal tank 30 liters.

# Workshop machine

## Silent piston air compressors



### Technical characteristics

The tank in the inside of compressor is complete of all necessary accessories for a good working : pressure switch, non return valve, safety valve and exit connections.

The air suction filter and the motor protector on models SV 43/85, SV 52/105, SV 60/110, SV 60/120 are assembled in the cold zone of the machine.

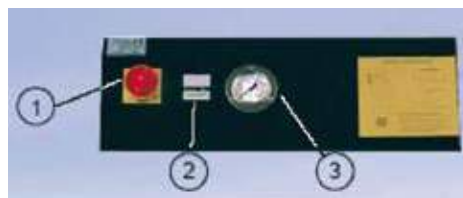
In all models is assembled a fan that, together with the flywheel makes a double and forced air flow needed for the cooling.

At request models : SV 60/2 and SV 43/85 are supplied also with electrical motor single phase 230 V.

The console assembled in the center of compressor makes easy the control of the working of the unit. It's complete of power ON-OFF switch, hour-counter and pressure gauge.

### CONSOLE








- ① Power ON-OFF switch
- ② Hour-counter
- ③ Pressure gauge



### MOD SV 60/110




- ① Compressor unit
- ② Electrical motor
- ③ Tank
- ④ Sight glass oil level
- ⑤ Oil drain plug
- ⑥ Non return valve
- ⑦ Safety valve
- ⑧ Pressure switch
- ⑨ Vibration damper

### Driers

Model				Air connect				
	8 bar l/1'	10 bar l/1'	kW		bar		kg	B x A x C
EPO 18 H	280	300	0,13	3/8"	16	230/1/50	16	45 x 19,7 x 45,5
EPO 36 H	550	600	0,13	3/8"	16	230/1/50	18	45 x 19,7 x 45,5
EPO 54 H	850	900	0,17	3/8"	16	230/1/50	20	45 x 19,7 x 45,5
EPO 78 H	1220	1300	0,20	1/2"	16	230/1/50	32	60 x 28,2 x 53

Driers for air compressed - Entrance air temperature 35°C  
With timer controlled condensate drain

### Vertical tanks CEE rules with accessories

Model		ø cm	H cm	 bar	 kg
50V	L50	28	105	11	19
100V	L100	35	124	11	35
200V	L200	44	156	11	47
270V	L270	49	164	11	72
500V	L500	60	208	11	120
725V	L725	80	188	11	190
900V	L900	80	225	11	228
1000V	L1000	80	236	12	187
2000V	L2000	100	283	12	397

Accessories : safety valve, gauge, ball valve, reductions and stoppers.  
For 1000 and 2000 liters model line tap control with flange.



# Workshop machine

## Silent piston air compressors





### Silent piston air compressors series «SO» horizontal on tank from 3 to 7.5 HP











These series of air compressors model «SO» horizontal on tank are made to produce a very compact machine : the pump unit is assembled on tank and sound-dampened by a metal cowl with sound-absorbing panels.

The silent and without vibration running are made by pads studies with antivibration devices. The solution adopted in the «SO» compressors is the result of the study on noiseless air compressor series vertical. One of the characteristic of this model is that it can be installed in every point of the work ambient because of it's tested to the CEE rules.

#### Technical features

Silent piston compressors series «SO» horizontal.

The compressors with   starter are complete solenoid valve.

Model											
				L/1'	HP	kW		bar		kg	B x A x C
SO43/85-200M	L200	65	P43/85	340	3	2,2	985	10	230/1/50	140	147 x 54 x 114
SO43/85-200t	L200	65	P43/85	340	3	2,2	985	10	400/3/50	140	147 x 54 x 114
SO52/105-300E	L270	65	P52/105	500	4	3	872	10	400/3/50	195	130 x 60 x 130
SO52/105-300	L270	65	P52/105	560	5,5	4	970	10	400/3/50	198	130 x 64 x 130
SO60/110-500	L500	64	P60/110	860	7,5	5,5	1115	10	400/3/50	295	200 x 61 x 147
SO52/105-300st°	L270	65	P52/105	560	5,5	4	970	10	400/3/50	198	130 x 64 x 130
SO60/110-500st°	L500	70	P60/110	860	7,5	5,5	1115	10	400/3/50	298	200 x 61 x 147
SO52/105-300st*	L270	70	P52/105	560	5,5	4	970	10	230/3/50	200	130 x 64 x 130
SO60/110-500st*	L500	65	P60/110	860	7,5	5,5	1115	10	230/3/50	300	200 x 61 x 147

With   starter 400/3/50 - With   starter 230/3/50

# Workshop machine

## High-pressure industrial compressors



### Working pressure from 15-20-30-35 bar

These air compressors are made in compliance with the safety rules in force. There are machines simple and of easy maintenance, assembled with material of first quality.



### High-pressure pistons compressors on tank 15 and 20 bar

These air compressors are complete of special tubes of cooling (between 1<sup>st</sup> and 2<sup>nd</sup> stage) and tubes of delivery, non return valve, tele-pressure switch, safety valve and flywheel in cast iron. The models at 20 bar are assembled with non return valve Hoerbiger type. The air compressors with power from 7.5-12.5 HP are complete with star-delta starter in box and solenoid valve.

Model											
			L/1'	L/1'	HP	kW	1/min	bar		kg	B x A x C
PAS 2-20	2	P52/2-AP	240	162	2	1,5	1400	20	230/400	35	80 x 34 x 50
PAS 50-16	50	P43/85	295	200	3	2,2	870	16	400/3/50	65	95 x 47 x 75
PAS 120-16	120	P43/85	323	220	4	3	950	16	400/3/50	85	120 x 51 x 85
PAS 185-16*	185	P52/105	539	360	5,5	4	830	16	400/3/50	110	140 x 53 x 110
PAS 300-16*	300	P60/110	660	580	7,5	5,5	820	16	400/3/50	180	155 x 60 x 120
PAS 500-16*	500	P60/120	938	880	10	7,5	920	16	400/3/50	310	197 x 60 x 123
PAS 120-21	120	P43/85	290	190	4	3	850	21	400/3/50	85	110 x 51 x 85
PAS 200-21*	200	P52/105	630	400	7,5	5,5	970	21	400/3/50	120	140 x 53 x 110
PAS 300-21*	250	P60/110	798	640	10	7,5	990	21	400/3/50	190	155 x 69 x 120
PAS 500-21*	500	P60/120	938	880	12,5	9	920	21	400/3/50	320	197 x 60 x 123











# Workshop machine

## High-pressure pistons compressors



### High-pressure pistons compressors on base from 16 to 35 bar

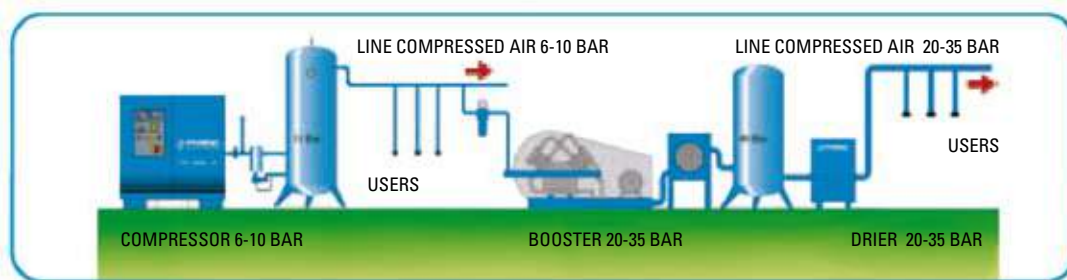
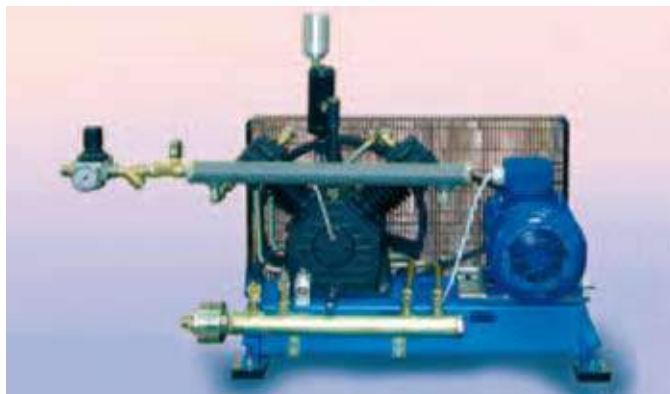
These air compressors on base are machines built for elevated performance. There are complete of special tubes of cooling (between the 1<sup>st</sup> and the 2<sup>nd</sup> stage) and tubes of delivery, tele-pressure switch, non return valve, safety valve and flywheel in cast iron. The models with pressure 30 and 35 bar are supplied with heat exchanger and electro-fan between the 1<sup>st</sup> and 2<sup>nd</sup> stage, separator and electronic condensate drain, non return valve Hoerbiger type, suction gauge and delivery gauge. The air compressors with power from 7.5-12.5 HP are complete with star-delta starter in box and solenoid valve. The air compressors on base must be connected at a tank of adequate capacity and pressure.

Model	 L/1'	 L/1'	 HP	 kW	 C/1'	 bar	 B x A x C	 kg
PAB 43/85AP-16	323	220	4	3	950	16	105 x 50 x 85	63
PAB 43/85AP-20	290	190	4	3	850	20	105 x 50 x 85	63
PAB 43/85AP-30	357	130	4	3	1050	30	105 x 50 x 85	63
PAB 52/105AP-16	540	360	5,5	4	830	16	105 x 50 x 85	80
PAB 52/105AP-20	630	400	7,5	5,5	970	20	105 x 50 x 85	82
PAB 52/105AP-30	470	240	7,5	5,5	720	30	105 x 50 x 85	82
PAB 60/110AP-16	660	580	7,5	5,5	820	16	140 x 60 x 85	210
PAB 60/110AP-20	800	640	10	7,5	990	20	140 x 60 x 85	212
PAB 60/110AP-30	650	400	10	7,5	800	30	140 x 60 x 85	218
PAB 52/110AP-35	600	510	12,5	9	920	35	140 x 60 x 85	215
PAB 60/120AP-16	938	880	10	7,5	920	16	140 x 60 x 85	215
PAB 60/120AP-20	938	880	12,5	9	920	20	140 x 60 x 85	215
PAB 60/120AP-30	775	750	12,5	9	760	30	140 x 60 x 85	215











# Workshop machine

## Hyperhigh-pressure - alternative oil booster 20 - 30 - 35 bar



### Hyperhigh-pressure - Alternative oil booster 20 - 30 - 35 bar

This hyperhigh-pressure or booster is a machine that makes compressed air until a max of 35 bar, making the air of line existing from 6-10 bar, with a max capacity of 2300 lt/1'. It's complete with suction solenoid valve, discharge solenoid valve, vibration dampers, final cooler with fan, separator and electronic condensate drain, suction gauge, delivery gauge, star-delta starter, pre-filter of suction, non return valve and pressure switch. They must be fed from an air compressor adequate to requiry capacity (see scheme on last page).

Model									
		bar	kW	HP	bar		L/1'	B x A x C	kg
IBP - 60/20	P60/60 booster	6	5,5	7,5	20	600	1470	160 x 60 x 92	220
	P60/60 booster	10	5,5	7,5	20	600	2440	160 x 60 x 92	220
	P60/60 booster	6	7,5	10	20	1000	2440	160 x 60 x 92	225
	P60/60 booster	10	7,5	10	20	1000	4000	160 x 60 x 92	225
IBP - 60/30	P60/60 booster	6	5,5	7,5	30	600	1470	160 x 60 x 92	220
	P60/60 booster	10	7,5	10	30	600	2440	160 x 60 x 92	225
	P60/60 booster	6	11	15	30	1000	2440	160 x 60 x 92	230
	P60/60 booster	10	11	15	30	1000	4000	160 x 60 x 92	230
IBP - 60/35	P60/60 booster	6	7,5	10	35	600	2000	160 x 60 x 92	225
	P60/60 booster	8	7,5	10	30	600	2500	160 x 60 x 92	225
	P60/60 booster	6	11	15	30	1000	3100	160 x 60 x 92	230
	P60/60 booster	10	11	15	35	1000	3600	160 x 60 x 92	230

# Workshop machine

## Silenced compressors series «SV-AP»





### Silenced compressors series «SV-AP»

These series of air compressors model «SV-AP» are made to produce a very compact machine : the pump unit is sound-dampened by a metal cowling with sound-absorbing panels. The silent and without vibration running are made by pads studies with antivibration devices.

The solution adopted in the «SV-AP» compressors is the result of the study on noiseless air compressor series «PAS». One of the characteristic of this model is that it can be installed in every point of the work ambient because of it's tested to the CEE rules.

### «SV-AP» SERIES 15 BAR

Model										
	bar		L/1'	L/1'	bar		HP	kW		B x A x C
SV43/85M-AP	65	P43/85	295	200	15	3	2,2	400/1/50	84	70 x 50 x 79
SV43/85AP	65	P43/85	295	200	15	3	2,2	400/3/50	81	70 x 50 x 85
SV52/105E-AP	64	P52/105	500	340	15	4	3	400/3/50	130	86 x 60 x 104
SV52/105-AP	65	P52/105	539	360	15	5,5	4	400/3/50	132	86 x 60 x 104
SV60/110-AP	70	P60/110	660	580	15	7,5	5,5	400/3/50	185	86 x 74 x 117
SV60/120-AP	70	P60/120	938	880	15	10	7,5	400/3/50	261	97 x 80 x 130
SV52/105st°-AP	65	P52/105	539	360	15	5,5	4	400/3/50	132	86 x 60 x 114
SV50/110st°-AP	70	P60/110	660	580	15	7,5	5,5	400/3/50	185	86 x 74 x 117
SV60/120st°-AP	70	P60/120	938	880	15	10	7,5	400/3/50	265	97 x 80 x 130

All the models at requiry can be supplied with direct-transmission.

# Workshop machine

## Rotary screw compressors



### Rotary screw compressors - «PXA» SERIES from 5,5 to 15 hp

This new range of rotary screw compressors represents the maximum technical evolution of compactness functionality. Although preserving the particular high performance of the screw compressors, with this new models we obtained minimum bulking volume and a great simplicity of maintenance.

Naturally also this compressors new range are produced with very carefully test control, and following the most hard safety rules. Our quality system is certified ISO 9001.

### Technical datas «PXA»

Model	dB(A)	L/1'	m <sup>3</sup> /h	HP	KW	⚡	bar	Kg	L	A B C
PXA 5,5	70	550	31	5,5	4	400/3/50	10	177	-	69 x 75 x 67
PXA 7,5	70	750	43	7,5	5,5	400/3/50	10	177	-	69 x 75 x 67
PXA 10	70	950	60	10	7,5	400/3/50	10	187	-	69 x 75 x 67
PXA 15	72	1600	96	15	11	400/3/50	10	197	-	69 x 75 x 67
PXA 5,5 S270	70	550	31	5,5	4	400/3/50	10	295	270	70 x 150 x 142
PXA 7,5 S270	70	750	43	7,5	5,5	400/3/50	10	295	270	70 x 150 x 142
PXA 10 S270	70	950	80	10	7,5	400/3/50	10	305	270	70 x 150 x 142
PXA 15 S270	72	1600	96	15	11	400/3/50	10	315	270	70 x 150 x 142
PXA 5,5 S500	70	550	31	5,5	4	400/3/50	10	325	500	70 x 191 x 151
PXA 7,5 S500	70	750	43	7,5	5,5	400/3/50	10	325	500	70 x 191 x 151
PXA 10 S500	70	950	60	10	7,5	400/3/50	10	335	500	70 x 191 x 151
PXA 15 S500	72	1600	96	15	11	400/3/50	10	345	500	70 x 191 x 151
PXA 5,5 S270 E	70	550	31	5,5	4	400/3/50	10	315	270	70 x 150 x 142
PXA 7,5 S270 E	70	750	43	7,5	5,5	400/3/50	10	315	270	70 x 150 x 142
PXA 10 S270 E	70	950	80	10	7,5	400/3/50	10	320	270	70 x 150 x 142
PXA 15 S270 E	72	1600	96	15	11	400/3/50	10	325	270	70 x 150 x 142
PXA 5,5 S500 E	70	550	31	5,5	4	400/3/50	10	335	500	70 x 191 x 151
PXA 7,5 S500 E	70	750	43	7,5	5,5	400/3/50	10	335	500	70 x 191 x 151
PXA 10 S500 E	70	950	60	10	7,5	400/3/50	10	345	500	70 x 191 x 151
PXA 15 S500 E	72	1600	96	15	11	400/3/50	10	355	500	70 x 191 x 151

S = Tank - E = Dryer

# Workshop machine

## Rotary screw compressors



**PVB 10 S500E/EC**

### SERIE PVA 5,5 - 20 hp

With this new range of screw rotary compressors of high affidability and saving in electrical feeding. Small scale, noiseless and high performance are the characteristic of these compressors, that in a sole machine include a station complete of dried compressed air and filtered of high quality. Easiness of installation, simplicity in the use and in the maintenance, compactness and safety makes of the compressors series «PVA» the best choice also for the users more exacting.

### Technical datas «PVA 5,5 - 20 hp»

Model	Lt.	Screw pump	L/min	cfm	m³/h	HP	KW	Bar	Psi	400/3/50	dB	A B C cm	Kg	Conn gas
PVA 5,5/EC-8		SCA 8	640	23	38	5,5	4	8	116	400/3/50	68	61 x 110 x 115	140	3/4"
PVA 5,5/EC-10		SCA 8	570	20	34	5,5	4	10	145	400/3/50	68	61 x 110 x 115	140	3/4"
PVA 7,5/EC-8		SCA 8	780	28	47	7,5	5,5	8	116	400/3/50	70	61 x 110 x 115	145	3/4"
PVA 7,5/EC-10		SCA 8	720	25	43	7,5	5,5	10	145	400/3/50	70	61 x 110 x 115	145	3/4"
PVA 10/EC-8		SCA 8	1150	41	69	10	7,5	8	116	400/3/50	70	61 x 110 x 115	160	3/4"
PVA 10/EC-10		SCA 8	1000	35	60	10	7,5	10	145	400/3/50	70	61 x 110 x 115	160	3/4"
PVA 10/EC-13		SCA 8	840	30	50	10	7,5	13	188	400/3/50	70	61 x 110 x 115	160	3/4"
PVA 15/EC-8		SCA 8	1710	60	103	15	11	8	116	400/3/50	70	61 x 110 x 115	180	3/4"
PVA 15/EC-10		SCA 8	1550	55	93	15	11	10	145	400/3/50	70	61 x 110 x 115	180	3/4"
PVA 15/EC-13		SCA 8	1300	46	78	15	11	13	188	400/3/50	70	61 x 110 x 115	180	3/4"
PVA 20/EC-8		SCA 8	2300	81	138	20	15	8	116	400/3/50	70	61 x 110 x 115	190	3/4"
PVA 20/EC-10		SCA 8	2000	71	120	20	15	10	145	400/3/50	70	61 x 110 x 115	190	3/4"
PVA 20/EC-13		SCA 8	1680	59	101	20	15	13	188	400/3/50	70	61 x 110 x 115	190	3/4"
PVA 5,5 S270/EC-8/10	270	SCA 8	640/570	23/20	38/34	5,5	4	8/10	116/145	400/3/50	68	65 x 152 x 177	220	3/4"
PVA 5,5 S500/EC-8/10	500	SCA 8	640/570	23/20	38/34	5,5	4	8/10	116/145	400/3/50	68	65 x 193 x 188	270	3/4"
PVA 7,5 S270/EC-8/10	270	SCA 8	780/720	28/25	47/43	7,5	5,5	8/10	116/145	400/3/50	70	65 x 152 x 177	225	3/4"
PVA 7,5 S500/EC-8/10	500	SCA 8	780/720	28/25	47/43	7,5	5,5	8/10	116/145	400/3/50	70	65 x 193 x 188	275	3/4"
PVA 10 S270/EC-8/10	270	SCA 8	1150/1000	41/35	69/60	10	7,5	8/10	116/145	400/3/50	70	65 x 152 x 177	240	3/4"
PVA 10 S500/EC-8/10	500	SCA 8	1150/1000	41/35	69/60	10	7,5	8/10	116/145	400/3/50	70	65 x 193 x 188	290	3/4"
PVA 15 S270/EC-8/10	270	SCA 8	1710/1550	60/55	103/93	15	11	8/10	116/145	400/3/50	70	65 x 152 x 177	255	3/4"
PVA 15 S500/EC-8/10	500	SCA 8	1710/1550	60/55	103/93	15	11	8/10	116/145	400/3/50	70	65 x 193 x 188	305	3/4"
PVA 20 S270/EC-8/10	270	SCA 8	2300/2000	81/71	138/120	20	15	8/10	116/145	400/3/50	70	65 x 152 x 177	275	3/4"
PVA 20 S500/EC-8/10	500	SCA 8	2300/2000	81/71	138/120	20	15	8/10	116/145	400/3/50	70	65 x 193 x 188	325	3/4"
PVA 5,5 S270/EC-8/10	270	SCA 8	640/570	23/20	38/34	5,5	4	8/10	116/145	400/3/50	68	65 x 152 x 177	235	3/4"
PVA 5,5 S500/EC-8/10	500	SCA 8	640/570	23/20	38/34	5,5	4	8/10	116/145	400/3/50	68	65 x 193 x 188	285	3/4"
PVA 7,5 S270/EC-8/10	270	SCA 8	780/720	28/25	47/43	7,5	5,5	8/10	116/145	400/3/50	70	65 x 152 x 177	240	3/4"
PVA 7,5 S500/EC-8/10	500	SCA 8	780/720	28/25	47/43	7,5	5,5	8/10	116/145	400/3/50	70	65 x 193 x 188	290	3/4"
PVA 10 S270/EC-8/10	270	SCA 8	1150/1000	41/35	69/60	10	7,5	8/10	116/145	400/3/50	70	65 x 152 x 177	255	3/4"
PVA 10 S500/EC-8/10	500	SCA 8	1150/1000	41/35	69/60	10	7,5	8/10	116/145	400/3/50	70	65 x 193 x 188	340	3/4"
PVA 15 S270/EC-8/10	270	SCA 8	1710/1550	60/55	103/93	15	11	8/10	116/145	400/3/50	70	65 x 152 x 177	270	3/4"
PVA 15 S500/EC-8/10	500	SCA 8	1710/1550	60/55	103/93	15	11	8/10	116/145	400/3/50	70	65 x 193 x 188	355	3/4"
PVA 20 S270/EC-8/10	270	SCA 8	2300/2000	81/71	138/120	20	15	8/10	116/145	400/3/50	70	65 x 152 x 177	290	3/4"
PVA 20 S500/EC-8/10	500	SCA 8	2300/2000	81/71	138/120	20	15	8/10	116/145	400/3/50	70	65 x 193 x 188	375	3/4"

S = Tank - E = Dryer - EC = Electronic control

# Workshop machine

## Rotary screw compressors

















PVB 20 / EC-10

PVB 20 S500E/EC-10

### SERIE PVB 15 - 20 hp

#### Technical datas

Model	 Lt.	 Screw pump	 L/min	 cfm	 m³/h	 HP	 KW	 Bar	 Psi		 dB	 A B C cm	 Kg	 Conn gas
PVB 15/EC-8		SCA 9	200	71	120	15	11	8	116	400/3/50	68	61 x 110 x 115	215	3/4"
PVB 15/EC-10		SCA 9	1710	60	103	15	11	10	116	400/3/50	68	61 x 110 x 115	215	3/4"
PVB 15 S270/EC-8/10	270	SCA 9	2000/1710	71/60	120/103	15	11	8/10	116/145	400/3/50	68	65 x 152 x 177	310	3/4"
PVB 15 S500/EC-8/10	500	SCA 9	2000/1710	71/60	120/103	15	11	8/10	116/145	400/3/50	68	65 x 193 x 188	360	3/4"
PVB 15 S270E/EC-8/10	270	SCA 9	2000/1710	71/60	120/103	15	11	8/10	116/145	400/3/50	68	65 x 152 x 177	325	3/4"
PVB 15 S500E/EC-8/10	500	SCA 9	2000/1710	71/60	120/103	15	11	8/10	116/145	400/3/50	68	65 x 193 x 188	375	3/4"
PVB 20/EC-8		SCA 9	2460	85	155	20	15	8	116	400/3/50	70	61 x 110 x 115	220	3/4"
PVB 20-HT/EC-8		SCA 9	2460	85	155	20	15	8	116	400/3/50	70	71 x 125 x 131	290	3/4"
PVB 20/EC-10		SCA 9	2100	74	126	20	15	10	145	400/3/50	70	61 x 110 x 115	220	3/4"
PVB 20-HT/EC-10		SCA 9	2100	74	126	20	15	10	145	400/3/50	70	71 x 125 x 131	290	3/4"
PVB 20/EC-13		SCA 9	1800	64	108	20	15	13	189	400/3/50	70	65 x 152 x 177	220	3/4"
PVB 20-HT/EC-13		SCA 9	1800	64	108	20	15	13	189	400/3/50	70	71 x 125 x 131	290	3/4"
PVB 20 S270/EC-8/10	270	SCA 9	2460/2100	85/74	155/126	20	15	8/10	116/145	400/3/50	70	65 x 193 x 188	315	3/4"
PVB 20 S500/EC-8/10	500	SCA 9	2460/2100	85/74	155/126	20	15	8/10	116/145	400/3/50	70	65 x 193 x 188	365	3/4"
PVB 20 S270E/EC-8/10	270	SCA 9	2460/2100	85/74	155/126	20	15	8/10	116/145	400/3/50	70	65 x 152 x 177	330	3/4"
PVB 20 S500E/EC-8/10	500	SCA 9	2460/2100	85/74	155/126	20	15	8/10	116/145	400/3/50	70	65 x 193 x 188	380	3/4"

E = Dryer - S = Tank - EC = Electronic control - HT = For high ambient temperature



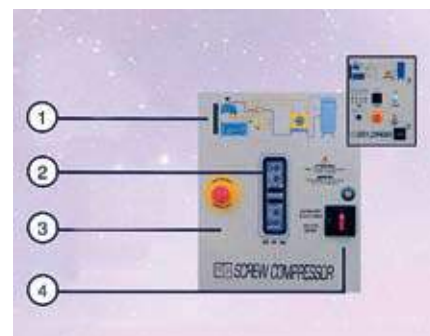
# Workshop machine

## Typical standard system for quality compressed air



- ① Compressed air tank
- ② Drier
- ③ Screw noiseless air compressor
- ④ Automatic condensation disc charge
- ⑤ Standard filter 3 micron
- ⑥ Oil separator filter 0,1 micron

- ① Operating diagram
- ② Control panel
- ③ Emergency stop
- ④ Isolator switch (door looking)



## Typical standard system for quality compressed air

### PVB 25 - 30 hp SERIES

Model	Screw pump	L/min	cfm	m <sup>3</sup> /h	HP	KW	Bar	Psi		dB	A B C cm	Kg	Conn gas
PVB 25/EC-8	SCA 9	2900	102	174	25	18	8	116	400/3/50	70	71 x 125 x 131	305	1"
PVB 25/EC-10	SCA 9	2500	88	150	25	18	10	145	400/3/50	70	71 x 125 x 131	305	1"
PVB 25/EC-13	SCA 9	2050	72	123	25	18	13	189	400/3/50	70	71 x 125 x 131	305	1"
PVB 30/EC-8	SCA 9	3250	115	195	30	22	8	116	400/3/50	70	71 x 125 x 131	337	1"
PVB 30/EC-10	SCA 9	2950	104	177	30	22	10	145	400/3/50	70	71 x 125 x 131	337	1"
PVB 30/EC-13	SCA 9	2550	88	150	30	22	13	189	400/3/50	70	71 x 125 x 131	337	1"

E = Dryer - S = Tank - EC = Electronic control - HT = For high ambient temperature

#### \*At request electromechanical panel

A series of led marks the following informations :

- motor rotating
- fan thermal overload
- emergency push-button
- maintenance program
- main motor thermal overload
- normal operation of the compressor

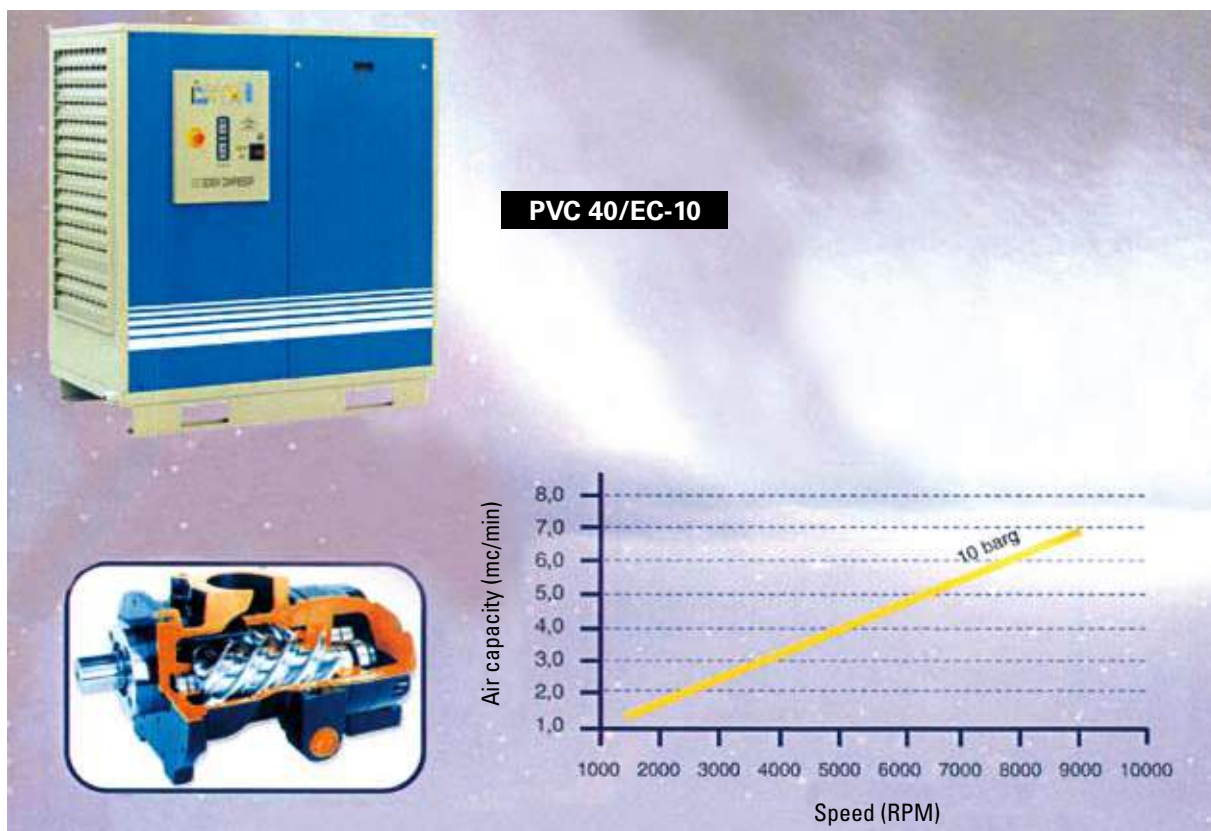
Moreover on display you can see :

- working pressure
- oil temperature
- visualization of total working hours










CONTROL PANEL Control panel with last generation card; with this card you can have constantly under control all the functions of the compressors, signaling eventual alarms. Our electronic card EC-M-04 is evolved and very simple to use, thanks to a user-friendly interface. All the electronic instrumentation is contained in a watertight cabinet with degree of protection IP 55. The factors and the coefficients used for the calculation of the thermic dispersion are controlled in compliance to the rule CENELEC HD528.

# Workshop machine

## Rotary screw compressors



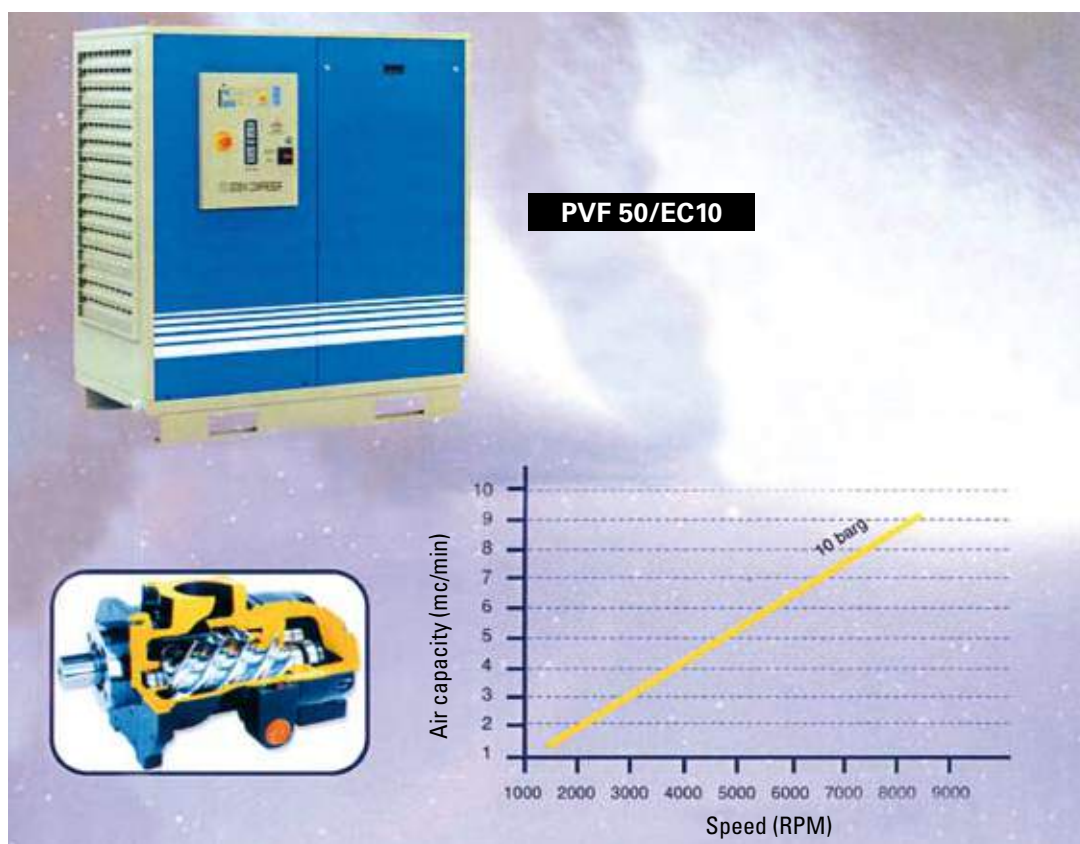
### Rotary screw compressors - PVC 30 - 50 hp SERIES - Technical datas «PVC 30-50»

Model	Screw pump				 								Conn gas
		L/min	cfm	m³/h	HP	KW	Bar	Psi					
PVC 30/EC-8	SCA 10	3900	138	234	30	22	8	116	400/3/50	72	71 x 125 x 131	362	1"
PVC 30/EC-10	SCA 10	3400	120	204	30	22	10	145	400/3/50	72	71 x 125 x 131	362	1"
PVC 30/EC-13	SCA 10	3000	106	180	30	22	13	189	400/3/50	72	71 x 125 x 131	362	1"
PVC 40/EC-8	SCA 10	5200	184	312	40	30	8	116	400/3/50	72	71 x 125 x 131	397	1"
PVC 40/HT EC-8	SCA 10	5200	184	312	40	30	8	116	400/3/50	72	83 x 146 x 155	485	1"
PVC 40/EC-10	SCA 10	4550	161	273	40	30	10	145	400/3/50	72	71 x 125 x 131	397	1"
PVC 40/HT EC-10	SCA 10	4550	161	273	40	30	10	145	400/3/50	72	83 x 146 x 155	485	1"
PVC 40/EC-13	SCA 10	3850	136	231	40	30	13	189	400/3/50	72	71 x 125 x 131	397	1"
PVC 40/HT EC-13	SCA 10	3850	136	231	40	30	13	189	400/3/50	72	83 x 146 x 155	485	1"
PVC 50/EC-8	SCA 10	6200	219	372	50	37	8	116	400/3/50	72	83 x 146 x 155	515	1"
PVC 50/EC-10	SCA 10	5450	192	321	50	37	10	145	400/3/50	72	83 x 146 x 155	515	1"
PVC 50/EC-13	SCA 10	4800	170	288	50	37	13	189	400/3/50	72	83 x 146 x 155	515	1"

EC = Electronic control - HT = For high ambient temperature

# Workshop machine

## Rotary screw compressors












### Rotary screw compressors - PVF 50 - 60 hp SERIES

These asymmetric-profile compressors are of ultra-modern design, and built according to the most modern technological concepts. They are specifically built to work at a full load 24 hours a day, 7 days a week, without any drop in performance. The two rotors turn at extremely minimal tolerances, without touching, immersed in a mixture of oil and air. As they rotate they aspirate air in through the input duct, mix it with the oil and direct it through the vanes that, by changing in volume, begin the compression process.

The oil, in addition to providing seal and bearing lubrication, removes the heat generated by the compression process. The oil is extracted from the air flow in the multi-stage separator, and sent to the cooling radiator and subsequently put back in circulation. This heat, opportunely conveyed, can be utilized to heat company buildings. The compressed air, after the oil is removed, is passed into the final cooling unit and then delivered to the pipeline system. Structural simplicity is so great that maintenance, is virtually limited to periodic oil changes and replacement of oil and air filters.

### Technical datas «PVF 250-60»

Model	Screw pump				   								Conn gas
		L/min	cfm	m³/h	HP	KW	Bar	Psi					
PVF 50/EC-8	SCA 13	6250	223	375	50	37	8	116	400/3/50	74	83 x 146 x 155	550	1"
PVF 50/EC-10	SCA 13	5550	198	333	50	37	10	145	400/3/50	74	83 x 146 x 155	550	1"
PVCF 50/EC-13	SCA 13	4950	177	297	50	37	13	189	400/3/50	74	83 x 146 x 155	550	1"
PVF 60/EC-8	SCA 13	7350	263	441	60	45	8	116	400/3/50	74	83 x 146 x 155	605	1"
PVF 60/EC-10	SCA 13	6500	232	390	60	45	10	145	400/3/50	74	83 x 146 x 155	605	1"
PVF 60/EC-13	SCA 13	5900	211	354	60	45	13	189	400/3/50	74	83 x 146 x 155	605	1"

HT = For high ambient temperature

# Workshop machine

## Generator set

### CLASS PETROL

### GENERATOR SETS

#### E Class Petrol : Essential Energy

Simple and essential professional generators; offer maximum reliability and performance, with a basic but efficient configuration.



#### Use

Sockets have IP44 thermal protection and reset device fitted directly to the alternator for a full and optimal use of all the power produced by the generator.

#### Frame

Rigid tubular structure, although light, is tough and provides protection for the generator in tough conditions.

#### Alternator

All E-Class alternators are fitted with IP23 protection that ensures safe use even at maximum power.

MODEL / CODE		E3200 / PA252SHI	E4000 / PA292SHI	E5000 / PA432SHI	E5000 / PA542THI
<b>GENERATOR 3000 RPM</b>					
<b>THREE-PHASE POWER</b>					
Power LTP	kW				5,04
Power COP/LTP	kVA				5,36/6,30
Voltage	Volt				400
Frequency	Hz				50
Power Factor	cosφ				0,8
<b>SINGLE-PHASE POWER</b>					
Power LTP	kW	2,59	3,1	4,6	3,74
Power COP/LTP	kVA	2,45/2,88	2,92/3,44	4,20/5,11	3,14/4,16
Voltage	Volt	230	230	230	230
Frequency	Hz	50	50	50	50
Power Factor	cosφ	0,9	0,9	0,9	0,9
<b>ENGINE</b>					
Model		Honda	Honda	Honda	Honda
Type		GX160	GX200	GX270	GX270
Displacement	cc	163	196	270	270
Cylinder		1 inclined	1 inclined	1 inclined	1 inclined
Power	kW	3,6	4,3	6,3	6,3
Fuel		unleaded petrol	unleaded petrol	unleaded petrol	unleaded petrol
Aspiration		natural	natural	natural	natural
Cooling system		air	air	air	air
Starting system		recoil	recoil	recoil	recoil
<b>CONSUMPTION</b>					
Consumption	g/kWh	313	313	313	313
Consumption at 75%	l/h	0,9	1,1	1,6	1,6
Tank capacity	l	3,6	3,6	6	6
Running time at 75%	h	3,9	3,2	3,7	3,7
<b>NOISE EMISSION</b>					
Noise level LWA	dB(A)	97	98	98	98
Acoustic pressure at 7 m	dB(A)	72	73	72	72
<b>DIMENSIONS AND WEIGHT</b>					
Length	mm	630	630	715	715
Width	mm	458	458	540	540
Height	mm	415	415	490	490
Weight (dry)	kg	38	38	74	74
<b>STANDARD EQUIPMENT</b>					
Thermal protection		•	•	•	•
Oil-guard system		•	•	•	•
Sockets		2 x 230V 16A	2 x 230V 16A	2 x 230V 16A	1 x 230V 16A 1 x 400V 16A
<b>PROTECTION</b>					
Electric protection		IP 23	IP 23	IP 23	IP 23
Socket protection		IP 44	IP 44	IP 44	IP 44
<b>ACCESSORIES</b>					
Transportation kit		•	•	•	•



# Workshop machine

## Generator set

### CLASS PETROL

### GENERATOR SETS

#### E Class Petrol : Essential Energy

With the perfect balance of quality and economy, these generators have reduced fuel consumption, making them efficient and economical.



Panel

Sockets have IP44 protection and reset device as part of thermal protection.

Strong and compact

Compact and sturdy, this generator is suitable for a wide range of applications due to its versatile dimensions and characteristics.



Filter

Easy access to the air filter; for fast changing during essential maintenance.



Model / CODE		E2400* / PA212SHI	E3100* / PA222SHI	E4900 / PA352SHI	E4900 / PA442THI
<b>GENERATOR 3000 TPM</b>					
<b>THREE-PHASE POWER</b>					
Power LTP	kW				4,16
Power COP/LTP	kVA				4,42/5,20
Voltage	Volt				400
Frequency	Hz				50
Power Factor	cosφ				0,8
<b>SINGLE-PHASE POWER</b>					
Power LTP	kW	2,24	2,3	3,8	3,09
Power COP/LTP	kVA	2,12/2,49	2,18/2,56	3,59/4,22	2,59/3,43
Voltage	Volt	230	230	230	230
Frequency	Hz	50	50	50	50
Power Factor	cosφ	0,9	0,9	0,9	0,9
<b>ENGINE</b>					
Model		Honda	Honda	Honda	Honda
Type		GX160 LC	GX160 LC	GX240	GX240
Displacement	cc	163	163	242	242
Cylinder		1 inclined	1 inclined	1 inclined	1 inclined
Power	kW	3,2	3,2	5,2	5,2
Fuel		unleaded petrol	unleaded petrol	unleaded petrol	unleaded petrol
Aspiration		natural	natural	natural	natural
Cooling system		air	air	air	air
Starting system		recoil	recoil	recoil	recoil
<b>CONSUMPTION</b>					
Consumption	g/kWh	313	313	313	313
Consumption à 75%	l/h	0,8	0,8	1,3	1,3
Tank capacity	l	3,6	3,6	6	6
Running time at 75%	h	4,3	4,3	4,5	4,5
<b>NOISE EMISSION</b>					
Noise level LWA	dB(A)	///**	///**	///**	///**
Acoustic pressure at 7 m	dB(A)	///**	///**	///**	///**
<b>DIMENSIONS AND WEIGHT</b>					
Length	mm	630	630	715	715
Width	mm	458	458	540	540
Height	mm	415	415	490	490
Weight (dry)	kg	34	38	61	74
<b>STANDARD EQUIPMENT</b>					
Thermal protection		•	•	•	•
Oil-guard system		•	•	•	•
Sockets		1 x 230V 16A	2 x 230V 16A	2 x 230V 16A	1 x 230V 16A 1 x 400V 16A
<b>PROTECTION</b>					
Electric protection		IP 23	IP 23	IP 23	IP 23
Socket protection		IP 44	IP 44	IP 44	IP 44
<b>ACCESSORIES</b>					
Transportation kit		•	•	•	•

\* Not saleable in the EU countries

\*\* Not compliant with directive 2000/14/EC



# Workshop machine

## Generator sets

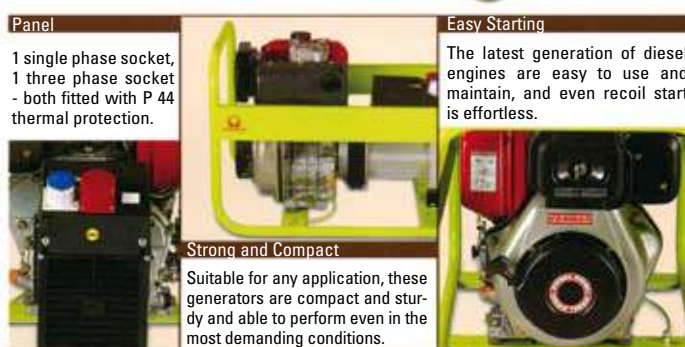


### E CLASS DIESEL

### GENERATOR SETS

#### E CLASS Diesel : Essential Energy

Diesel generators providing maximum power, efficiently, built using only quality components for professional users.



MODEL / CODE		E4500 / PA322SYH	E6000 / PA572TYH	E6500 / PA482SYH
GENERATOR 3000 RPM				
THREE-PHASE POWER				
Power LTP	kW		5,52	
Power COP/LTP	kVA		5,66/6,90	
Voltage	Volt		400	
Frequency	Hz		50	
Power Factor	cosφ		0,8	
SINGLE-PHASE POWER				
Power LTP	kW	3,5	4,1	5,28
Power COP/LTP	kVA	3,31/3,89	3,32/4,55	4,81/5,87
Voltage	Volt	230	230	230
Frequency	Hz	50	50	50
Power Factor	cosφ	0,9	0,9	0,9
ENGINE				
Model		Yanmar	Yanmar	Yanmar
Type		L70	L100	L100
Displacement	cc	296	406	406
Cylinder		1 vertical	1 vertical	1 vertical
Power	kW	4,8	6,9	6,9
Fuel		gasoil	gasoil	gasoil
Aspiration		natural	natural	natural
Cooling system		air	air	air
Starting system		recoil	recoil	recoil
CONSUMPTION				
Consumption	g/kWh	272	272	272
Consumption at 75%	l/h	1	1,4	1,4
Tank capacity	l	3,5	5,5	5,5
Running time at 75%	h	3,4	3,9	3,9
NOISE EMISSION				
Noise level LWA	dB(A)	///**	///**	///**
Acoustic pressure at 7 m	dB(A)	///**	///**	///**
DIMENSIONS AND WEIGHT				
Length	mm	760	800	800
Width	mm	490	575	575
Height	mm	530	570	570
Weight (dry)	kg	54	96	100
STANDARD EQUIPMENT				
Thermal protection		•	•	•
Sockets		2 x 230V 16A	1 X 230V 16A 1 X 400V 16A	1 X 230V 16A 1 X 230V 32A
PROTECTION				
Electric protection		IP 23	IP 23	IP 23
Socket protection		IP 44	IP 44	IP 44
ACCESSORIES				
Transportation kit		•	•	•

\*\*Not compliant with directive 2000/14/EC

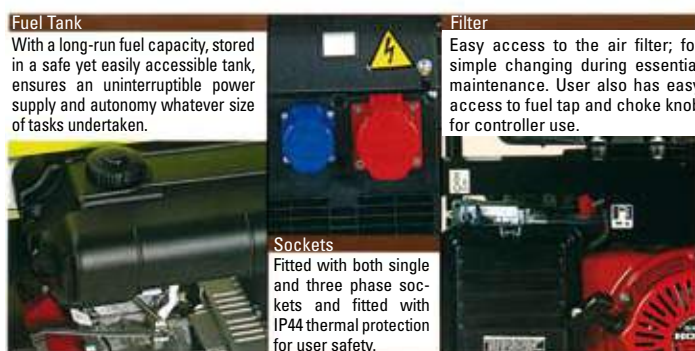
# Workshop machine

## Generator sets

### ES CLASS PETROL GENERATOR SETS

#### ES CLASS Petrol : Long Run Energy

A class of petrol generators designed specifically for intensive operations where performance power is demanded by professional users over an extended period of time.



MODEL / CODE		ES3000/PE242SHI	ES4000/PE292SHI	ES5000/PE402SHI	ES5000/PE532THI	ES8000/PE612SHI	ES8000/PE652THI
GENERATOR 3000 RPM							
THREE-PHASE POWER							
Power LTP	kW				5,04		6,64
Power COP/LTP	kVA				5,36/6,30		7,00/8,30
Voltage	Volt				400		400
Frequency	Hz				50		50
Power Factor	cosφ				0,8		0,8
SINGLE-PHASE POWER							
Power LTP	kW	2,59	3,1	4,6	3,74	6,43	4,93
Power COP/LTP	kVA	2,45/2,88	2,92/3,44	4,20/5,11	3,14/4,16	6,08/7,15	4,11/5,48
Voltage	Volt	230	230	230	230	230	230
Frequency	Hz	50	50	50	50	50	50
Power Factor	cosφ	0,9	0,9	0,9	0,9	0,9	0,9
ENGINE							
Model		Honda	Honda	Honda	Honda	Honda	Honda
Type		GX160	GX200	GX270	GX270	GX390	GX390
Displacement	cc	163	196	270	270	389	389
Cylinder		1 inclined	1 inclined	1 inclined	1 inclined	1 inclined	1 inclined
Power	kW	3,6	4,3	6,3	6,3	8,3	8,3
Fuel		unlead.petrol	unlead.petrol	unlead.petrol	unlead.petrol	unlead.petrol	unlead.petrol
Aspiration		natural	natural	natural	natural	natural	natural
Cooling system		air	air	air	air	air	air
Starting system		recoil	recoil	recoil	recoil	recoil	recoil
CONSUMPTION							
Consumption	g/kWh	313	313	313	313	313	313
Consumption at 75%	l/h	0,9	1,1	1,6	1,6	2,2	2,1
Tank capacity	l	11	11	11	11	11	11
Running time at 75%	h	11,8	9,9	6,7	6,7	5,1	5,2
NOISE EMISSION							
Noise level LWA	dB(A)	98	97	98	98	99	99
Acoustic pressure at 7 m	dB(A)	72	71	72	72	73	73
DIMENSIONS AND WEIGHT							
Length	mm	623	623	729	729	729	729
Width	mm	405	405	500	500	500	500
Height	mm	500	500	536	536	536	536
Weight (dry)	kg	41	45	61	75	76	81
STANDARD EQUIPMENT							
Thermal protection		•	•	•	•	•	•
Oil-guard system		•	•	•	•	•	•
Sockets		2 x 230V 16A	2 x 230V 16A	2 x 230V 16A	1 X 230V 16A 1 X 400V 16A	1 X 230V 16A 1 X 230V 32A	1 X 230V 16A 1 X 400V 16A
PROTECTION							
Electric protection		IP 23	IP 23	IP 23	IP 23	IP 23	IP 23
Socket protection		IP 44	IP 44	IP 44	IP 44	IP 44	IP 44
ACCESSORIES							
Transportation kit		•	•	•	•	•	•

# Workshop machine

## Generator sets

### S CLASS PETROL

### GENERATOR SETS

#### S CLASS Petrol : The Complete Package

The new S series is distinguished by an innovative design. Showcasing the excellence of PRAMAC's professional equipment; These generators are the ultimate package when maximum performance, reliability and efficiency are required.



MODEL / CODE		S5000 PD412SHI	S5000 PD412SHB	S5000 PD542THI	S5000 PD542THB	S8000 PD612SHI	S8000 PD612SHB	S8000 PD652THI	S8000 PD652THB
<b>GENERATOR 3000 RPM</b>									
<b>THREE-PHASE POWER</b>									
Power LTP	kW			5,04	5,04			6,64	6,64
Power COP/LTP	kVA			5,36/6,30	5,36/6,30			7,00/8,30	7,00/8,30
Voltage	Volt			400	400			400	400
Frequency	Hz			50	50			50	50
Power Factor	cosφ			0,8	0,8			0,8	0,8
<b>SINGLE-PHASE POWER</b>									
Power LTP	kW	4,47	4,47	3,74	3,74	6,43	6,43	4,93	4,93
Power COP/LTP	kVA	4,10/4,97	4,10/4,97	3,14/4,16	3,14/4,16	6,08/7,15	6,08/7,15	4,11/5,48	4,11/5,48
Voltage	Volt	230	230	230	230	230	230	230	230
Frequency	Hz	50	50	50	50	50	50	50	50
Power Factor	cosφ	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9
<b>ENGINE</b>									
Model		Honda	Honda	Honda	Honda	Honda	Honda	Honda	Honda
Type		GX270	GX270	GX270	GX270	GX390	GX390	GX390	GX390
Displacement	cc	270	270	270	270	389	389	389	389
Cylinder		1 inclined	1 inclined	1 inclined	1 inclined	1 inclined	1 inclined	1 inclined	1 inclined
Power	kW	6,3	6,3	6,3	6,3	8,3	8,3	8,3	8,3
Fuel		unleaded. petrol	unleaded. petrol	unleaded. petrol	unleaded. petrol	unleaded. petrol	unleaded. petrol	unleaded. petrol	unleaded. petrol
Aspiration		natural	natural	natural	natural	natural	natural	natural	natural
Cooling system		air	air	air	air	air	air	air	air
Starting system		recoil	electric	recoil	electric	recoil	electric	recoil	electric
<b>CONSUMPTION</b>									
	g/kWh	313	313	313	313	313	313	313	313
Consumption at 75%	l/h	1,63	1,63	1,63	1,63	2,13	2,15	1,98	1,98
Tank capacity	l	18	18	18	18	18	18	18	18
Running time at 75%	h	11	11	11	11	8,4	8,4	9,1	9,1
<b>NOISE EMISSION</b>									
Noise level LWA	dB(A)	99	99	98	98	99	99	99	99
Acoustic pressure at 7 m	dB(A)	73	73	72	72	73	73	73	73
<b>DIMENSIONS AND WEIGHT</b>									
Length	mm	832	832	832	832	832	832	832	832
Width	mm	513	513	513	513	513	513	513	513
Height	mm	570	570	570	570	570	570	571	571
Weight (dry)	kg	56	60	77	86	89	94	92	96
<b>STANDARD EQUIPMENT</b>									
Thermal protection		•	•	•	•	•	•	•	•
Oil-guard system		•	•	•	•	•	•	•	•
Magneto thermal protection		•	•	•	•	•	•	•	•
Differential protection		•	•	•	•	•	•	•	•
Battery charger (12V 10A)		•	•	•	•	•	•	•	•
Sockets		2x230V16A	2x230V16A	1x230V16A 1x400V16A	1x230V16A 1x400V16A	1x230V16A 1x230V32A	1x230V16A 1x230V32A	1x230V16A 1x400V16A	1x230V16A 1x400V16A
<b>PROTECTION</b>									
Electric protection		IP 23	IP 23	IP 23	IP 23	IP 23	IP 23	IP 23	IP 23
Socket protection		IP 44	IP 44	IP 44	IP 44	IP 44	IP 44	IP 44	IP 44
<b>ACCESSORIES</b>									
Transportation kit		•	•	•	•	•	•	•	•
Isometer protection		•	•	•	•	•	•	•	•
AMF		•	•	•	•	•	•	•	•

Available under request the version SP8000 IP54

# Workshop machine

## Generator sets

### S CLASS PETROL GENERATOR SETS

#### S CLASS Petrol

All the features of a top class generator : A powerful and economical engine, a strong and modern design and a long-run easy filling fuel tank.



Panel

High levels of safety and control means generator range is perfect for any application.

Low noise, rigid frame and easy transp.

Soundproof panels ensure low noise and rigid tubular structure provides protection even in tough conditions. The practical trolley kit allows you to easily move the generator.



Strong and compact

Suitable for any application, these generators are compact and sturdy and able to perform even in the most demanding conditions



MODEL / CODE		S12000 / PD103SHB	S12000 / PD123THB
<b>GENERATOR 3000 RPM</b>			
<b>THREE-PHASE POWER</b>			
Power LTP	kW		11,07
Power COP/LTP	kVA		11,76/13,84
Voltage	Volt		400
Frequency	Hz		50
Power Factor	cosφ		0,8
<b>SINGLE-PHASE POWER</b>			
Power LTP	kW	10,73	8,22
Power COP/LTP	kVA	10,00/11,93	6,90/9,13
Voltage	Volt	230	230
Frequency	Hz	50	50
Power Factor	cosφ	0,9	0,9
<b>ENGINE</b>			
Model		Honda	Honda
Type		GX620	GX620
Displacement	cc	614	614
Cylinder		2 à V	2 à V
Power	kW	14	14
Fuel		unleaded petrol	unleaded petrol
Aspiration		natural	natural
Cooling system		air	air
Starting system		electric	electric
<b>CONSUMPTION</b>			
Consumption	g/kWh	313	313
Consumption at 75%	l/h	3,8	3,8
Tank capacity	l	11	11
Running time at 75%	h	2,9	2,9
<b>NOISE EMISSION</b>			
Noise level LWA	dB(A)	///**	///**
Acoustic pressure at 7 m	dB(A)	///**	///**
<b>DIMENSIONS AND WEIGHT</b>			
Length	mm	830	830
Width	mm	490	490
Height	mm	570	570
Weight (dry)	kg	98	101
<b>STANDARD EQUIPMENT</b>			
Oil-guard system		•	•
Magneto thermal protection		•	•
Differential protection		•	•
Isometer protection		•	•
Voltmeter		•	•
Sockets		2 x 230V 16A 1 x 230V 32A	3 x 230V 16A 1 x 400V 16A
<b>PROTECTION</b>			
Electric protection		IP 23	IP 23
Socket protection		IP 44	IP 44
<b>ACCESSORIES</b>			
Transportation kit		•	•
Hourmeter		•	•
AMF		•	•

\*\* Not compliant with directive 2000/14/EC



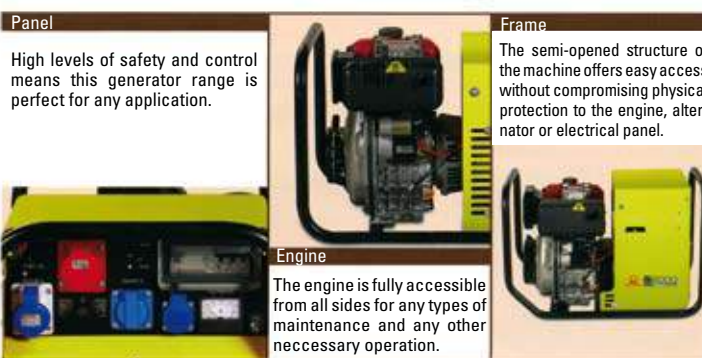
# Workshop machine

## Generator sets

### S CLASS DIESEL GENERATOR SETS

#### S CLASS Diesel : Power and low consumption

Built to the same high specification as the S Class Petrol products, this range offers the same robust package with a modern and economical Diesel engine.



MODEL / CODE		S4500 / PD322SYA	S6000 / PD572TYA	S6500 / PD482SYA
<b>GENERATOR 3000 RPM</b>				
<b>THREE-PHASE POWER</b>				
Power LTP	kW		5,53	
Power COP/LTP	kVA		5,67/6,92	
Voltage	Volt		400	
Frequency	Hz		50	
Power Factor	cosφ		0,8	
<b>SINGLE-PHASE POWER</b>				
Power LTP	kW	3,41	4,11	5,28
Power COP/LTP	kVA	3,22/3,79	3,33/4,57	4,81/5,87
Voltage	Volt	230	230	230
Frequency	Hz	50	50	50
Power Factor	cosφ	0,9	0,9	0,9
<b>ENGINE</b>				
Model		Yanmar	Yanmar	Yanmar
Type		L70	L100	L100
Displacement	cc	296	406	406
Cylinder		1 vertical	1 vertical	1 vertical
Power	kW	4,8	6,9	6,9
Fuel		gasoil	gasoil	gasoil
Aspiration		natural	natural	natural
Cooling system		air	air	air
Starting system		electric	electric	electric
<b>CONSUMPTION</b>				
Consumption	g/kWh	272	272	272
Consumption at 75%	l/h	1	1,41	1,41
Tank capacity	l	3,5	5,5	5,5
Running time at 75%	h	3,4	3,9	3,9
<b>NOISE EMISSION</b>				
Noise level LWA	dB(A)	///**	///**	///**
Acoustic pressure at 7 m	dB(A)	///**	///**	///**
<b>DIMENSIONS AND WEIGHT</b>				
Length	mm	810	830	830
Width	mm	450	490	490
Height	mm	500	570	570
Weight (dry)	kg	84	112	105
<b>STANDARD EQUIPMENT</b>				
Magneto thermal protection		•	•	•
Differential protection		•	•	•
Voltmeter		•	•	•
Battery charger (12V 10A)		•	•	•
Sockets		2 x 230V 16A 1 x 230V 32A	2 x 230V 16A 1 x 400V 16A	2 x 230V 16A 1 x 230V 32A
<b>PROTECTION</b>				
Electric protection		IP 23	IP 23	IP 23
Socket protection		IP 44	IP 44	IP 44
<b>ACCESSORIES</b>				
Transportation kit		•	•	•
Isometer protection		•	•	•
Hourmeter		•	•	•
AMF		•	•	•
Remote control		•	•	•

\*\* Not compliant with directive 2000/14/EC



# Workshop machine

## Generator sets

### S CLASS DIESEL

### GENERATOR SETS

#### S CLASS Diesel : Power and low consumption

Built to the same high specification as the S Class Petrol products, this range offers the same robust package with a modern and economical Diesel engine.

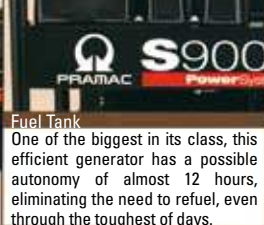


Panel

Complete with easy to read displays, incorporating superb design and practicality.

Frame

Rigid tubular structure, although light, is tough and provides protection for the generator even in tough conditions.



Fuel Tank

One of the biggest in its class, this efficient generator has a possible autonomy of almost 12 hours, eliminating the need to refuel, even through the toughest of days.

MODEL / CODE		S9000 / PD752SRA		S9000 / PD882TRA	
GENERATOR 3000 RPM					
THREE-PHASE POWER					
Power LTP	kW			8,15	
Power COP/LTP	kVA			8,76/10,19	
Voltage	Volt			400	
Frequency	Hz			50	
Power Factor	cosφ			0,8	
SINGLE-PHASE POWER					
Power LTP	kW	7,8		6,05	
Power COP/LTP	kVA	7,45/8,67		5,14/6,72	
Voltage	Volt	230		230	
Frequency	Hz	50		50	
Power Factor	cosφ	0,9		0,9	
ENGINE					
Model		Ruggerini		Ruggerini	
Type		MD150		MD150	
Displacement	cc	654		654	
Cylinder		2 en ligne		2 en ligne	
Power	kW	10		10	
Fuel		gasoil		gasoil	
Aspiration		natural		natural	
Cooling system		air		air	
Starting system		electric		electric	
CONSUMPTION					
Consumption	g/kWh	260		260	
Consumption at 75%	l/h	2,05		2,05	
Tank capacity	l	24		24	
Running time at 75%	h	11,7		11,7	
NOISE EMISSION					
Noise level LWA	dB(A)	///**		///**	
Acoustic pressure at 7 m	dB(A)	///**		///**	
DIMENSIONS AND WEIGHT					
Length	mm	970		970	
Width	mm	600		600	
Height	mm	690		690	
Weight (dry)	kg	149		153	
STANDARD EQUIPMENT					
Magneto thermal protection		•		•	
Differential protection		•		•	
Oil pressure indicator		•		•	
Sockets		1 x 230V 16A 1 x 230V 32A		1 x 230V 16A 1 x 400V 16A	
PROTECTION					
Electric protection		IP 23		IP 23	
Socket protection		IP 44		IP 44	
ACCESSORIES					
Transportation kit		•		•	
Isometer protection		•		•	
Differential protection		•		•	
Hourmeter		•		•	
AMF		•		•	
Remote control		•		•	

\*\* Not compliant with directive 2000/14/EC

# Workshop machine

## Generator sets

### C CLASS PETROL

### GENERATOR SETS

#### C CLASS Petrol : Silent and Compact

This machine was designed for residential and domestic use, but will all the features and equipment usually found on a professional generator. The design of the frame means the generator is strong, silent and esthetically styled.



Panel

Two single phase 16A sockets, engine cut off switch, voltage presence light, battery charger terminal and thermal protection reset button ensures the spec of this machine matches that required for professional use, in a domestic package.



Air Filter / Engine Starting

Easy access to the air filter for simple changing during essential maintenance. Recoil handle is in an ideal position for safe and effortless starting.

Fuel Cap and Tank

A high capacity tank with easy to reach fuel cap mean refuelling is infrequent, simple and safe.



MODEL / CODE		C2000 / PC172SHI	C3000 / PC242SHI
<b>GENERATOR 3000 RPM</b>			
<b>SINGLE-PHASE POWER</b>			
Power LTP	kW	1,82	2,54
Power COP/LTP	kVA	1,72/2,02	2,40/2,82
Voltage	Volt	230	230
Frequency	Hz	50	50
Power Factor	cosφ	0,9	0,9
<b>ENGINE</b>			
Model		Honda	Honda
Type		GX120	GX160
Displacement	cc	118	163
Cylinder		1 inclined	1 inclined
Power	kW	2,6	3,6
Fuel		unleaded petrol	unleaded petrol
Aspiration		natural	natural
Cooling system		air	air
Starting system		recoil	recoil
<b>CONSUMPTION</b>			
Consumption	g/kWh	313	313
Consumption at 75%	l/h	0,7	0,9
Tank capacity	l	11	11
Running time at 75%	h	16,3	11,8
<b>NOISE EMISSION</b>			
Noise level LWA	dB(A)	94	95
Acoustic pressure at 7 m	dB(A)	69	70
<b>DIMENSIONS AND WEIGHT</b>			
Length	mm	620	620
Width	mm	405	405
Height	mm	400	400
Weight (dry)	kg	42	43
<b>STANDARD EQUIPMENT</b>			
Thermal protection		•	•
Oil-guard system		•	•
Battery charger (12V 10A)		•	•
Voltage presence indicator		•	•
Sockets		2 x 230V 16A	2 x 230V 16A
<b>PROTECTION</b>			
Electric protection		IP 23	IP 23
Socket protection		IP 44	IP 44
<b>ACCESSORIES</b>			
Transportation kit		•	•
Isometer protection		•	•

# Workshop machine

## Generator sets

### P CLASS PETROL

### GENERATOR SETS

#### P CLASS Petrol : Silent Power

The ideal generator for use in residential areas or outside normal working hours. Low noise levels, built in plug for AMF or remote control, mean that this generator is equipped and ideal for use as a domestic back up power supply or for professional users in residential areas.



MODEL / CODE		P5000 / PF432SHB	P12000 / PF103SHB	P12000 / PF123THB
<b>GENERATOR 3000 RPM</b>				
<b>THREE-PHASE POWER</b>				
Power LTP	kW			11,07
Power COP/LTP	kVA			11,76/13,84
Voltage	Volt			400
Frequency	Hz			50
Power Factor	cosφ			0,8
<b>SINGLE-PHASE POWER</b>				
Power LTP	kW	4,79	10,73	8,22
Power COP/LTP	kVA	4,30/5,32	10,00/11,93	6,90/9,13
Voltage	Volt	230	230	230
Frequency	Hz	50	50	50
Power Factor	cosφ	0,9	0,9	0,9
<b>ENGINE</b>				
Model		Honda	Honda	Honda
Type		GX270	GX620	GX620
Displacement	cc	270	614	614
Cylinder		1 inclined	2 V	2 V
Power	kW	6,3	13,5	13,5
Fuel		unleaded petrol	unleaded petrol	unleaded petrol
Aspiration		natural	natural	natural
Cooling system		air	air	air
Starting system		electric	electric	electric
<b>CONSUMPTION</b>				
Consumption	g/kWh	313	313	313
Consumption at 75%	l/h	1,6	3,5	3,5
Tank capacity	l	6	24	24
Running time at 75%	h	3,9	6,9	6,9
<b>NOISE EMISSION</b>				
Noise level LWA	dB(A)	92	97	97
Acoustic pressure at 7 m	dB(A)	67	71	71
<b>DIMENSIONS AND WEIGHT</b>				
Length	mm	900	930	930
Width	mm	580	555	555
Height	mm	665	800	800
Weight (dry)	kg	119	166	176
<b>STANDARD EQUIPMENT</b>				
Magneto thermal protection		•	•	•
Oil-guard system		•	•	•
Differential protection		•	•	•
Over temperature protection		•	•	•
Voltmeter		•	•	•
Lifting hook		•	•	•
AMF connector		•	•	•
Sockets		2 x 230V 16A	2 x 230V 16A 1 x 230V 32A	3 x 230V 16A 1 x 400V 16A
<b>PROTECTION</b>				
Electric protection		IP 23	IP 23	IP 23
Socket protection		IP 44	IP 44	IP 44
<b>ACCESSORIES</b>				
Transportation kit		•	•	•
Remote control		•	•	•
AMF panel		•	•	•
Isometer protection		•	•	•
Differential protection		•	•	•

# Workshop machine

## Generator sets

### P CLASS DIESEL GENERATOR SETS

#### P CLASS Diesel : Power less than 5 kVA

The smallest diesel generator sets have the unique ability to supply quality electrical energy for almost 18 hours without refuelling. The economical and hard working diesel engines make for the ideal generator set for the demanding professional.



Panel

Complete with easy to read displays, incorporating superb design and practicality, allow the user complete control of all functions with assured safety.



Oil Change Access and Recoil Starting Handle

Easy access to oil cap means for quick and straight forward oil changes and refilling. Recoil handle is in an ideal position for safe and effortless starting.

Fuel Tap

A fuel tap cut off guarantees diesel will not flow when the generator is not in use.



MODEL / CODE		P4500 / PF322SYH	P4500 / PF322SYA
<b>GENERATOR 3000 RPM</b>			
<b>SINGLE-PHASE POWER</b>			
Power LTP	kW	3,41	3,41
Power COP/LTP	kVA	3,22/3,79	3,22/3,79
Voltage	Volt	230	230
Frequency	Hz	50	50
Power Factor	cosφ	0,9	0,9
<b>ENGINE</b>			
Model		Yanmar	Yanmar
Type		L70	L70
Displacement	cc	296	296
Cylinder		1 vertical	1 vertical
Power	kW	4,8	4,8
Fuel		gasoil	gasoil
Aspiration		natural	natural
Cooling system		air	air
Starting system		recoil	recoil
<b>CONSUMPTION</b>			
Consumption	g/kWh	272	272
Consumption at 75%	l/h	1	1
Tank capacity	l	18	18
Running time at 75%	h	17,7	17,7
<b>NOISE EMISSION</b>			
Noise level LWA	dB(A)	96	96
Acoustic pressure at 7 m	dB(A)	71	71
<b>DIMENSIONS AND WEIGHT</b>			
Length	mm	800	800
Width	mm	520	520
Height	mm	660	660
Weight (dry)	kg	98	103
<b>STANDARD EQUIPMENT</b>			
Magneto thermal protection		•	•
Voltmeter		•	•
Sockets		2 x 230V 16A 1 x 230V 32A	2 x 230V 16A 1 x 230V 32A
<b>PROTECTION</b>			
Electric protection		IP 23	IP 23
Socket protection		IP 44	IP 44
<b>ACCESSORIES</b>			
Transportation kit		•	•
Remote control		•	•
AMF panel		•	•
Isometer protection		•	•
Differential protection		•	•



# Workshop machine

## Generator sets

### P CLASS DIESEL

### GENERATOR SETS

#### P CLASS Diesel : Power from 5 to 9 k VA

Equipped to the same standards as the petrol versions, yet using a powerful and reliable diesel engine, these generators offer the maximum in performance, reliability and economy.



Panel

Complete with easy to read displays, incorporating superb design and practicality, allow the user complete control of all functions assured safety.



Lifting Eye

The strong lifting eye integrated into the frame with a dedicated cover allows easy and effortless moving of the generator

Easy Access

Lateral doors make it easy to access the engine bay for maintenance and service operations.



MODEL / CODE							
GENERATOR 3000 RPM							
THREE-PHASE POWER							
Power LTP	kW		5,53		5,53		8,15
Power COP/LTP	kVA		5,67/6,92		5,67/6,92		8,76/10,19
Voltage	Volt		400		400		400
Frequency	Hz		50		50		50
Power Factor	cosφ		0,8		0,8		0,8
SINGLE-PHASE POWER							
Power LTP	kW	5,28	4,11	5,28	4,11	7,8	6,05
Power COP/LTP	kVA	4,81/5,87	3,33/4,57	4,81/5,87	3,33/4,57	7,45/8,67	5,14/6,72
Voltage	Volt	230	230	230	230	230	230
Frequency	Hz	50	50	50	50	50	50
Power Factor	cosφ	0,9	0,9	0,9	0,9	0,9	0,9
ENGINE							
Model		Yanmar	Yanmar	Yanmar	Yanmar	Ruggerini	Ruggerini
Type		L100	L100	L100	L100	MD150	MD150
Displacement	cc	406	406	406	406	654	654
Cylinder		1 in vertical	1 in vertical	1 in vertical	1 in vertical	2 in line	2 in line
Power	kW	6,9	6,9	6,9	6,9	10	10
Fuel		gasoil	gasoil	gasoil	gasoil	gasoil	gasoil
Aspiration		natural	natural	natural	natural	natural	natural
Cooling system		air	air	air	air	air	air
Starting system		electric	electric	electric	electric	electric	electric
CONSUMPTION							
Consumption	g/kWh	272	272	272	272	260	260
Consumption at 75%	l/h	1,4	1,4	1,4	1,4	2,1	2,1
Tank capacity	l	24	24	21	21	24	24
Running time at 75%	h	17	17	14,9	14,9	11,7	11,7
NOISE EMISSION							
Noise level LWA	dB(A)	98	98	83	83	99	99
Acoustic pressure at 7 m	dB(A)	72	72	57	57	73	73
DIMENSIONS AND WEIGHT							
Length	mm	930	930	970	970	930	930
Width	mm	555	555	580	580	555	555
Height	mm	800	800	800	800	800	800
Weight (dry)	kg	149	153	205	205	190	193
STANDARD EQUIPMENT							
Magneto thermal protection		•	•	•	•	•	•
Voltmeter		•	•	•	•	•	•
Lifting hook		•	•	•	•	•	•
Sockets		2x230V 16A 1x230V 32A	3x230V 16A 1x400V 16A	3x230V 16A	2x230V 16A 1x400V 16A	2x230V 16A 1x230V 32A	3x230V 16A 1x400V 16A
PROTECTION							
Electric protection		IP 23	IP 23	IP 23	IP 23	IP 23	IP 23
Socket protection		IP 44	IP 44	IP 44	IP 44	IP 44	IP 44
ACCESSORIES							
Transportation kit		•	•	•	•	•	•
Remote control		•	•	•	•	•	•
AMF panel		•	•	•	•	•	•
Isometer protection		•	•	•	•	•	•
Differential protection		•	•	•	•	•	•



# Workshop machine

## Generator sets



### P CLASS DIESEL - GENERATOR SETS

#### P CLASS Diesel : Power greater than 9 kVa

Designed for professional and hard use, these generators are hoping to spend their lifetimes supplying power to sites and demanding applications. The integrated wheels and handles make it an ideal machine for conditions where it is vital that the power source is manœuvrable and reliable.



MODEL / CODE		P11000 / PF113SYA	P11000 / PF113TYA	P12000 / PF113TZA
<b>GENERATOR 3000 RPM</b>				
<b>THREE-PHASE POWER</b>				
Power LTP	kW		9,5	12,63
Power COP/LTP	kVA		10,80/11,88	11,00/15,79
Voltage	Volt		400	400
Frequency	Hz		50	50
Power factor	cosφ		0,8	0,8
<b>SINGLE-PHASE POWER</b>				
Power LTP	kW	10,69	6,53	9,38
Power COP/LTP	kVA	10,80/11,88	6,60/7,26	6,45/10,42
Voltage	Volt	230	230	230
Frequency	Hz	50	50	50
Power factor	cosφ	0,9	0,9	0,9
<b>ENGINE</b>				
Model		Yanmar	Yanmar	Hatz
Type		3TNE68	3TNE68	2G40
Displacement	cc	784	784	997
Cylinder		3 in line	3 in line	2 in line
Power	kW	12,9	12,9	15,4
Fuel		gasoil	gasoil	gasoil
Aspiration		natural	natural	natural
Cooling system		air	air	air
Starting system		electric	electric	electric
<b>CONSUMPTION</b>				
Consumption	g/kWh	252	252	235
Consumption at 75%	l/h	3	3	2,3
Tank capacity	l	30	30	17
Running time at 75%	h	10	10	7,4
<b>NOISE EMISSION</b>				
Noise level LWA	dB(A)	94	94	98
Acoustic pressure at 7 m	dB(A)	69	69	73
<b>DIMENSIONS AND WEIGHT</b>				
Length	mm	1360	1360	1003
Width	mm	650	650	620
Height	mm	840	840	800
Weight (dry)	kg	271	282	275
<b>STANDARD EQUIPMENT</b>				
Magneto thermal protection		•	•	•
Oil-guard system		•	•	•
Isometer protection		•	•	•
Over temperature protection		•	•	•
Voltmeter		•	•	•
Hour meter		•	•	•
Oil pressure indicator		•	•	•
Lifting hook		•	•	•
Sockets		2 x 230V 16A 1 x 230V 32 A	1 X 230V 16A 1 X 230V 32A 1 x 400V 32A	1 X 230V 16A 1 X 230V 32A 1 x 400V 16A
<b>PROTECTION</b>				
Electric protection		IP 23	IP 23	IP 23
Socket protection		IP 44	IP 44	IP 44
<b>ACCESSORIES</b>				
Transportation kit		•	•	•
Job site trailer		•	•	•
Remote control		•	•	•
AMF panel		•	•	•
Differential protection		•	•	•
Pre-heater		•	•	•

# Workshop machine

## Welder generators



### WP CLASS DIESEL - WELDER GENERATORS

#### WP Class Diesel : Welder Generators with Manual Adjustment

Built to the same high specification as the P class generator sets - This is a modern machine with a high capacity fuel tank and economical engine. The modern and practical canopy keeps noise at a minimum, even during the most demanding applications.



MODEL / CODE		WP180 / LC180MYA	WP230 / LC220MRA
<b>WELDING GENERATOR</b>			
Welding current	A	30-180	30-220
Open circuit voltage	V	95	95
Min/max. welding voltage	V	21,2/27,2	21,2/28,8
Welding service at 60%	A	140	180
<b>MAX. DIAMETER OF ELECTRODE</b>			
Rutile	mm	4	5
Basic	mm	4	4
Cellulose	mm	4	5
<b>THREE-PHASE POWER</b>			
Power LTP	kW	4,2	5,73
Power COP/LTP	kVA	5,0/5,25	6,50/7,16
Voltage	Volt	400	400
Frequency	Hz	50	50
Power factor	cosφ	0,8	0,8
<b>SINGLE-PHASE POWER</b>			
Power LTP	kW	4	4
Power COP/LTP	kVA	4,00/4,44	4,00/4,44
Voltage	Volt	230	230
Frequency	Hz	50	50
Power factor	cosφ	0,9	0,9
<b>ENGINE</b>			
Model		Yanmar	Ruggerini
Type		L100AE	MD150
Displacement	cc	406	654
Cylinder		1 vertical	2 in line
Power	kW	6,9	10
Fuel		gasoil	gasoil
Aspiration		natural	natural
Cooling system		air	air
Starting system		electric	electric
<b>CONSUMPTION</b>			
Consumption	g/kWh	272	260
Consumption at 75%	l/h	1,4	2,1
Tank capacity	l	24	24
Running time at 75%	h	16,9	11,7
<b>NOISE EMISSION</b>			
Noise level LWA	dB(A)	99	98
Acoustic pressure at 7 m	dB(A)	73	73
<b>DIMENSIONS AND WEIGHT</b>			
Length	mm	930	930
Width	mm	555	555
Height	mm	800	800
Weight (dry)	kg	180	193
<b>STANDARD EQUIPMENT</b>			
Magneto thermal protection		•	•
Welding double connector (with resistance)		•	•
Voltmeter		•	•
Loader batteries (12V 10A)		•	•
Sockets		3 x 230V 16A 1 x 400V 16 A	3 X 230V 16A 1 X 400V 16A
<b>PROTECTION</b>			
Electric protection		IP 23	IP 23
Socket protection		IP 44	IP 44
<b>ACCESSORIES</b>			
Transportation kit		•	•
Small wheeled transportation kit		•	•
Welding kit		•	•
Isometer protection		•	•

# Workshop machine

## Welder generators



### W Class Petrol and Diesel : Welder generators with Manual Adjustment

Designed to suit any application where portability, simplicity and quality are paramount.

#### Panel

Complete with easy to read displays, incorporating superb design and practicality, allow the user complete control of all functions with assured safety.



#### Compactness

Rigid tubular frame, although light, is tough and provides protection for the generator in tough conditions, and makes it easy to transport.

#### Accessibility

This machine is easily accessible from all sides allowing easy and quick access to all its components for maintenance.



MODEL / CODE		W300 / LA299EZA	W300 / LA300EZA	W350 / LA350EDA	W400 / LA400EDA
<b>WELDING GENERATOR</b>					
Welding current	A	30-300	30-300	30-350	30-400
Open circuit voltage	V	72	72	68	68
Min/max. welding voltage	V	21,2/32	21,2/32	21,2/34	36/36
Welding service at 60%	A	250	250	300	350
<b>MAX. DIAMETER OF ELECTRODE</b>					
Rutile	mm	6	6	6	8
Basic	mm	5	5	6	8
Cellulose	mm	6	6	6	8
<b>GENERATOR 3000 TPM</b>					
<b>THREE-PHASE POWER</b>					
Power LTP	kW	9	9	10,5	13
Power COP/LTP	kVA	10,00/11,25	10,00/11,25	12,00/13,13	15,00/16,25
Voltage	Volt	400	400	400	400
Frequency	Hz	50	50	50	50
Power factor	cosφ	0,8	0,8	0,8	0,8
<b>SINGLE-PHASE POWER</b>					
Power LTP	kW	7	7	10	10
Power COP/LTP	kVA	7,00/7,78	7,00/7,78	10,00/11,11	10,00/11,11
Voltage	Volt	230	230	230	230
Frequency	Hz	50	50	50	50
Power factor	cosφ	0,9	0,9	0,9	0,9
<b>ENGINE</b>					
Model		Hatz	Hatz	Deutz	Deutz
Type		2G40	2G40	F3M1008	F4M1008
Displacement	cc	997	997	918	918
Cylinder		2 in line	2 in line	3 in line	4 in line
Power	kW	15,4	15,4	15,5	21
Fuel		gasoil	gasoil	gasoil	gasoil
Aspiration		natural	natural	natural	natural
Cooling system		air	air	air	air
Starting system		electric	electric	electric	electric
<b>CONSUMPTION</b>					
Consumption	g/kWh	235	235	310	285
Consumption at 75%	l/h	2,8	2,8	4	5
Tank capacity	l	17	17	38	38
Running time at 75%	h	6	6	9,5	7,6
<b>NOISE EMISSION</b>					
Noise level LWA	dB(A)	95	99	96	97
Acoustic pressure at 7 m	dB(A)	70	74	71	71
<b>DIMENSIONS AND WEIGHT</b>					
Length	mm	1160	1300	1570	1570
Width	mm	610	745	740	740
Height	mm	680	770	860	860
Weight (dry)	kg	295	370	515	530
<b>STANDARD EQUIPMENT</b>					
Magneto thermal protection		•	•	•	•
Differential protection		•	•	•	•
Electronic regulating of speed		•	•	•	•
Security lowers load battery		•	•	•	•
Security motor*		•	•	•	•
Switch soldering for superheating		•	•	•	•
Button stop of emergency shutdown		•	•	•	•
Voltmeter		•	•	•	•
Witness lowers carburizing level		•	•	•	•
Witness lowers level of oil		•	•	•	•
Witness lowers load battery		•	•	•	•
Witness overheats oil / water		•	•	•	•
Loader batteries (12V 10A)		•	•	•	•
Hour meter		•	•	•	•
Implement automatic variation arch		•	•	•	•
Transportation kit		•	•	•	•
Tow construction site		•	•	•	•
Switch max potency soldering		•	•	•	•
Hot start device		•	•	•	•
Auto idle		•	•	•	•
Fuel-saving device		•	•	•	•
Sockets		3 x 230V 16A 1 x 400V 16A	3 x 230V 16A 1 x 400V 16A	2x230V16A / 1x230V32A 1x400V16A / 1x48V32A	2x230V16A / 1x230V32A 1x400V16A / 1x48V32A
<b>PROTECTION</b>					
Electric protection		IP 23	IP 23	IP 23	IP 23
Socket protection		IP 44	IP 44	IP 44	IP 44
<b>ACCESSORIES</b>					
Security motor*		•	•	•	•
Fuel-saving device		•	•	•	•
Welding kit		•	•	•	•
Remote control		•	•	•	•
Tow construction site		•	•	•	•
Selector reversal polarity		•	•	•	•
Catch 48V		•	•	•	•

\*Incluant arrêt système pour : baisse pression d'huile / baisse niveau carburant / surchauffe moteur.

# Workshop machine

## PTO Generators

### ZG SERIE

### PTO GENERATORS

#### ZG Class 1500 / 3000 rpm : Energy for Agriculture

These generators provide an economic way to supply electricity to any part of your agricultural land. Using the pto shaft of a tractor, the ZG class generator can produce high quality power for any agricultural use.



Panel

1 single phase socket,  
1 three phase socket  
- both fitted with IP  
44 thermal protection  
- maximum safety for  
maximum power.

PTO Shaft

Through a simple coupling with the tractor's PTO shaft, the generator is activated.

Alternator Filter

This efficient filter has been designed and positioned to not only avoid the intrusion of dust and particles that could compromise the machine's smooth running, but is also conveniently located for inspection or maintenance.

MODEL / CODE		ZG 100/3 MA08000T	ZG 150/3 MA10000T	ZG 200/3 MA14000T	ZG 300/3 MA20000T	ZG 300/15 MA21000T	ZG 400/15 MA26000T	ZG 500/15 MA32000T
<b>GENERATOR</b>								
<b>THREE-PHASE POWER</b>								
Power COP	kW	6,4	7,68	10,88	16	16,8	20,8	25,6
Power LTP	kVA	8	9,6	13,6	20	21	26	32
Voltage	Volt	400	400	400	400	400	400	400
Frequency	Hz	50	50	50	50	50	50	50
Power factor	cosφ	0,8	0,8	0,8	0,8	0,8	0,8	0,8
<b>SINGLE-PHASE POWER</b>								
Power COP	kW	2,38	2,85	4,04	5,94	6,24	7,72	9,5
Power LTP	kVA	2,64	3,17	4,49	6,6	6,93	8,58	10,56
Voltage	Volt	230	230	230	230	230	230	230
Frequency	Hz	50	50	50	50	50	50	50
Power factor	cosφ	0,9	0,9	0,9	0,9	0,9	0,9	0,9
<b>GEAR BOX</b>								
Revolution	rpm	3000	3000	3000	3000	1500	1500	1500
Power (tractor)	HP	17	20	29	41	42	52	62
Revolution PTO shaft	tpm	480	480	480	480	480	480	480
<b>DIMENSIONS AND WEIGHT</b>								
Length	mm	813	813	813	813	1000	1000	1000
Width	mm	788	788	788	788	900	900	900
Height	mm	930	930	930	930	1000	100	1000
Weight (dry)	kg	90	125	135	175	210	275	315
<b>STANDARD EQUIPMENT</b>								
Magneto thermal protection		•	•	•	•	•	•	•
Differential protection		•	•	•	•	•	•	•
Voltmeter		•	•	•	•	•	•	•
Frequencymeter		•	•	•	•	•	•	•
Sockets		1x230V16A 1x400V16A	1x230V16A 1x400V16A	1x230V16A 1x400V32A	1x230V16A 1x400V32A	1x230V16A 1x400V32A	1x230V16A 1x400V63A	1x230V16A 1x400V63A
<b>PROTECTION</b>								
Electric protection		IP 44	IP 44	IP 44	IP 44	IP 44	IP 44	IP 44
Socket protection		IP 44	IP 44	IP 44	IP 44	IP 44	IP 44	IP 44



# Workshop machine

## Aluminium round mounts T with protection of vibration

### Mounts with articulated screw TR-70

		M12	M16	M20
Foot ø in aluminium	mm	70	70	70
Foot height	mm	26	26	26
Height in lowest position	mm	53	58	67
Screw length (zinked)	mm	100	60/100/150	100
Screw length (stainless steel)	mm	100	100	100
Angle	°	5	5	5
ø of vulcanized protection of vibration	mm	66	66	66
Thickness of vulcanized protection of vibration	mm	4	4	4
Shore Hardness	° shore	50	50	50
Maximum adjustment load	daN	1000	1500	2000



Round mount TR-70 in aluminium

### Mounts with fixed screw TM-70

		M10	M12	M16	M20
Foot ø in aluminium	mm	70	70	70	70
Foot height	mm	26	26	26	26
Height in lowest position	mm	38	40	43	46
Screw length (zinked)	mm	100/150/200			
Screw length (stainless steel)	mm	100/150/200			
ø of vulcanized protection of vibration	mm	66	66	66	66
Thickness of vulcanized protection of vibration	mm	4	4	4	4
Shore Hardness	° shore	50	50	50	50
Maximum adjustment load	daN	750	1000	1500	2000



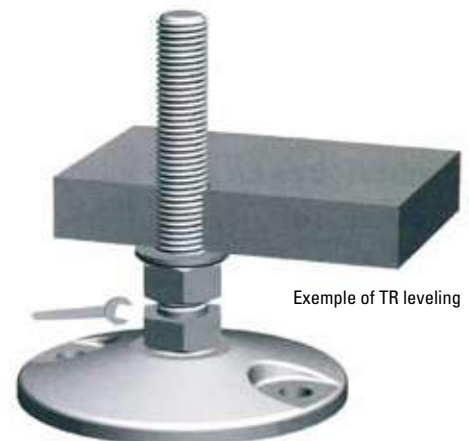
Mount TM-70 with fixed screw

### Mount with spherical steel washer

		M12	M16	M20
Foot ø in aluminium	mm	70	70	70
Height in lowest position	mm	26	26	26
ø of vulcanized protection of vibration	mm	66	66	66
Thickness of vulcanized protection of vibration	mm	4	4	4
Shore Hardness	° shore	50	50	50
Maximum adjustment load	daN	1000	1500	2000



TE-70 mount with steel insert



Example of TR leveling



# Workshop machine

## Rounds mounts with protection of vibration



### Applications

For automatic lates, milling machines drills, woodworking machines, injection machines, etc...

		RT-5	RT-10	RT-15	RT-25
Foot ø in iron	mm	76	92	115	148
Height in lowest position	mm	39	38	43	47
Screw	mm	M10	M12	M16 x 1,5	M20 x 1,5
Allen screw length	mm	80	100	100	100
Square screw length	mm	100/160	100/160/200	100/160/200	100/160/200
Coarse adjustment	mm	10	12	16	17
ø of vulcanized protection of vibration	mm	64	79	97	140
Shore Hardness	° shore	80	80	80	80
Maximum adjustment load	daN	500	750	1500	2500

Exemple RT



# Workshop machine

## Round mounts in cast steel, articulated

### Applications

Tools, drills, boring machines, automatic lathes, grinding machines, automatic system, chamfering machine, graphic art, machines optical apparatus, sawing machines, packing machine.

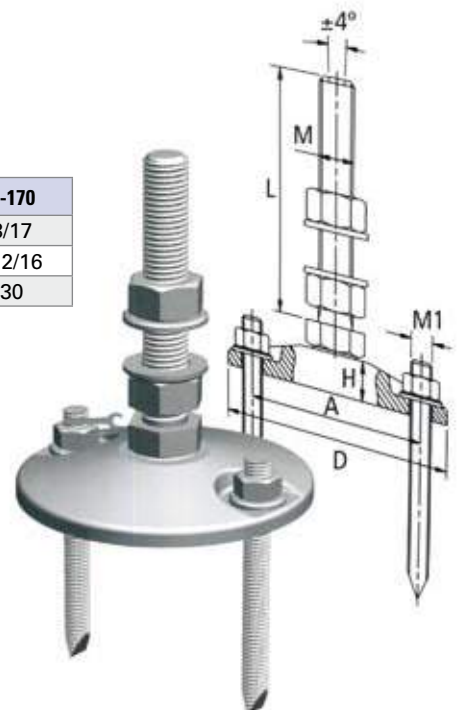


### Articulated round mounts TR

		TR-40	TR-100	TR-130	TR-170
Foot ø in iron	mm	40	100	130	170
Foot height in lowest position	mm	16	18	20	25
Screw sizes		M12/M16	M12/M16/M20	M16/M20/M24	M20/M24/M30
Zinked screw length	mm	80	100	100	100
Stainless steel screw length	mm	100	100	100	100
Angle +/-	°	4	4	4	4
Footing block ø	mm	---	96	126	165
Footing - block thickness	mm	---	5 et 10	5 et 10	5 et 10
Shore hardness	° shore	---	50/80	50/80	50/80
Maximum load	daN	1000	2000	2500	3000

### Round mounts TR with ground fixation

		TR-100	TR-130	TR-170
Boring ø for fixation screw	mm	9/11	11/13	13/17
Screw sizes M1	mm	M8/10	M10/12	M12/16
Distance between centres A	mm	75	100	130



# Workshop machine

## Mount TM with protection of vibration



Cast steel mounts with fixed screw		TM-100	TM-130	TM-170
Cast steel foot ø	mm	100	130	170
Foot height	mm	18	20	25
Screw dimension		M12/M16/M20	M16/M20/M24	M20/M24/M30
Screw length zinked	mm	100/150/200	100/150/200	100/150/200
Screw length stainless steel	mm	100/150/200	100/150/200	100/150/200
ø of vulcanized protection of vibration	mm	96	126	165
Thickness of vulcanized protection of vibration	mm	5 et 10	5 et 10	5 et 10
Shore Hardness	° shore	50/80	50/80	50/80
Maximum adjustment load	daN	2000	2500	3000



### Cast steel mounts with spherical steel washer

		TE-100	TE-130	TE-170
Cast steel foot ø	mm	100	130	170
Foot height	mm	18	20	25
Insert conic for thread stem		M12/M16/M20	M16/M20/M24	M20/M24/M30
ø of vulcanized protection of vibration	mm	96	126	165
Thickness of vulcanized protection of vibration	mm	5 et 10	5 et 10	5 et 10
Shore Hardness	° shore	50/80	50/80	50/80
Maximum adjustment load	daN	2000	2500	3000

# Workshop machine

## Stainless steel mounts with protection of vibration type CR



### Mounts with articulated screw

		CR-6	CR-11	CR-15
Stainless steel foot $\varnothing$	mm	74	110	150
Dimensions of screw		M12/M16/M20	M16/M20/M24	M20/M24/M30
Screw length	mm	100	100	100
Angle +/-	°	5	5	5
$\varnothing$ of vulcanized protection of vibration	mm	74	110	150
Shore Hardness	° shore	70	70	70
Maximum adjustment load	daN	1500	2500	4000

### Applications

Food industry, chemical industry

# Workshop machine

## Stainless steel round mounts with protection of vibration

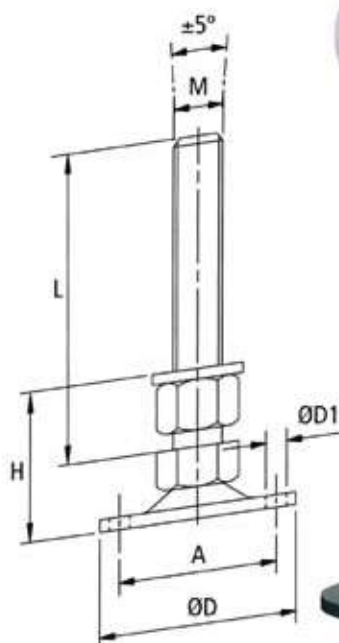
### Round mounts CR with long screw

		CR-6	CR-11	CR-15
Stainless steel foot $\varnothing$	mm	74	110	150
Screw dimensions	mm	>100	>100	>100
Machine support height M16	mm	64	74	81
Machine support height M20	mm	67	77	84
Machine support height M24	mm	71	81	88
Machine support height M30	m	-	-	99
Angle	°	5	5	5
Maximum adjustment load	daN	1500	2500	4000

### Mounts CR with long screw



### CRA round mounts with ground fixation



### Mounts CRA with ground fixation

		CRA-6	CRA-11
Stainless steel foot $\varnothing$	mm	80	116
Screw sizes M	mm	M12-M20	M12-M24
Screw length L	mm	100	100
Support height H	mm	33-46	45-58
Ground fixation sizes	mm	M6-M10	M6-M12
Distance between centres A	mm	64	96
Hole $\varnothing$ for fixation $\varnothing$ D1	mm	9	11
Maximum adjustment load	daN	1000	1500



# Workshop machine

## Steel spring

### SF Steel spring

To isolate from low loads vibrations, it is recommended to use steel springs. In the area between 0 and 500 daN, a frequency of 5 Hz is always present to achieve a low frequency isolation. All SF models are interchangeable in diameter and height. The spring are zinc plated or painted to protect them against corrosion.

### Applications

Active isolation : fans, blowers, air conditioners, compressors, generating sets, pumps. Passive isolation : electronical equipments, measurement devices, weighing machines, tests machines.



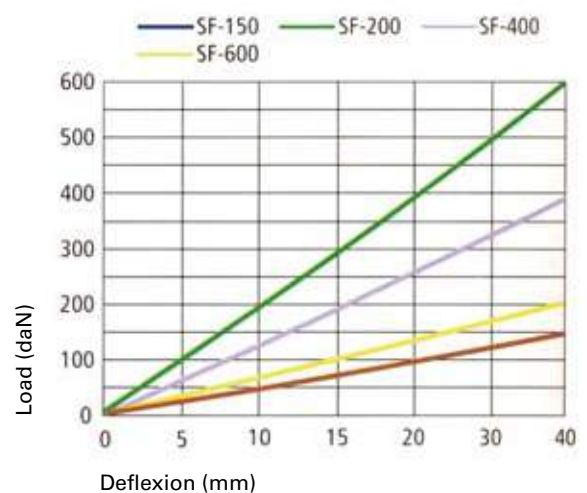
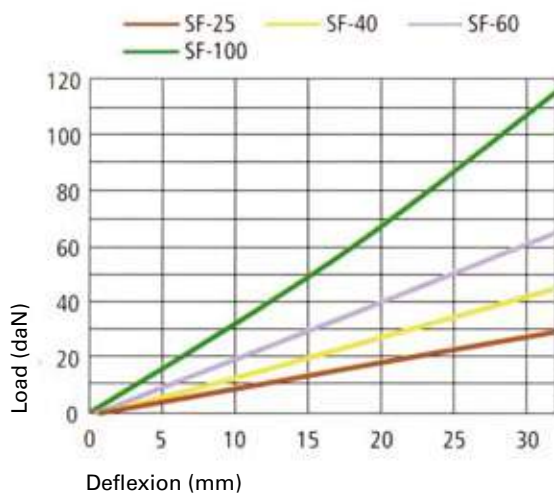
### SFD steel spring with deceleration

In applications where a motion is not wished, we recommend the SFB series using a «build in» insert as deceleration system. This insert is exactly suited on the vibration curve. Basically over 10% has to be added to the load to meet the same curve than the SF serie springs.

### Applications :

Centrifugal machines, vibrating tables, conveyor belts, also to convey sensitive products.

Datas for the steel springs SF and SFD		SF-25	SF-40	SF-60	SF-100	SF-150	SF-200	SF-400	SF-600
Height	mm	94	94	94	94	94	94	94	94
Spring rate	daN/mm	0,8	1,3	2	3,2	4,8	7,6	12,1	18,7
Recommanded bad SF	daN	12-27	20-38	30-67	50-120	70-170	120-270	180-380	280-520
Recommanded bad SFD	daN	12-32	14-40	27-68	38-100	58-165	100-250	110-360	190-570
Screw dimension		M10	M10	M10	M10	M10	M10	M10	M10



# Workshop machine

## Steel spring



The springs SF or SFD may be fitted with an easy levelled system by adding a M10 threaded rod.

SF with levelled system



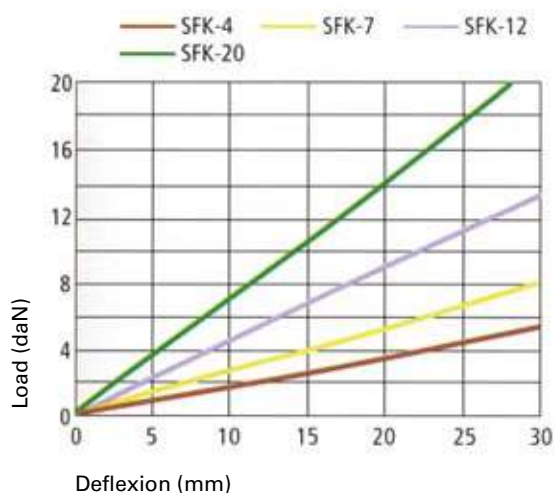
SF for floor mounting with additional noise insulating.

A basis plate allows the fixation on the floor and the noise generated by the spring oscillations are minimized by adding a nitrile rubber plate on the basis plate. The fixation on the floor is achieved by 2 M10 screws, 120 mm between axes. The plate dimensions are : 150 x 95 mm.

### All SFK type springs are interchangeable (diameter and height)

All spring SKF are interchangeables in diameter and height.

Datas ressorts SFK		SFK-4	SFK-7	SFK-12	SFK-20
Height	mm	60	60	60	60
Spring rate	daN/mm	0,18	0,27	0,45	0,7
Recommended load	daN	1,8-4,5	2,7-7	4,5-12	7-18
Screw dimension		M8	M8	M8	M8



SFK

# Workshop machine

## Precision levelling antiderapant wedges without anchor

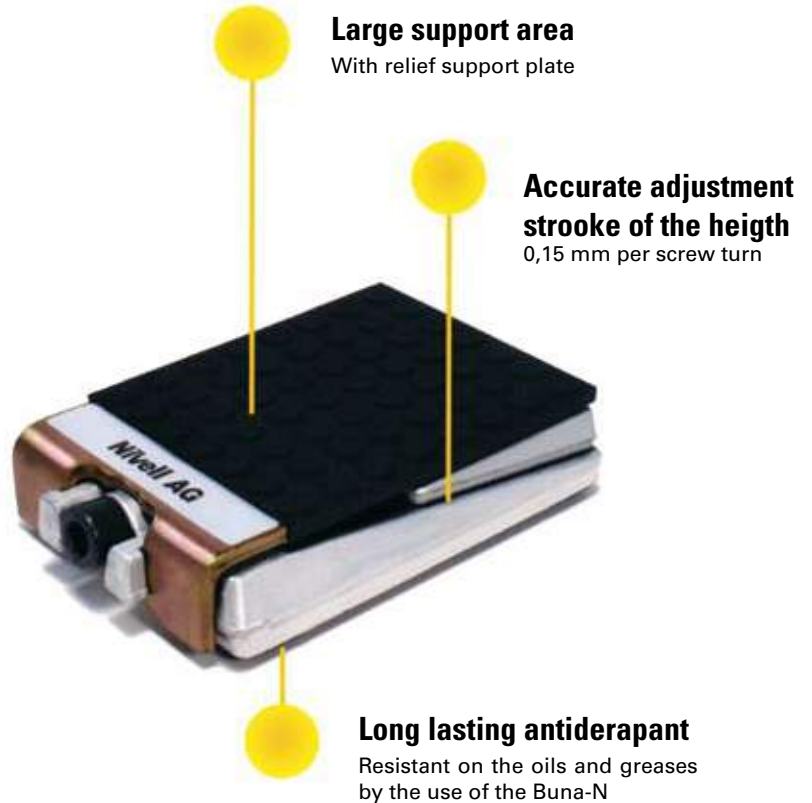
### Levelling wedges SK

Thin wedge for loads up to 2T

Dimensions SK 20 AV	mm
Length	137
Width	92
Height	29
Fine adjustment strooke	6,5
Strooke by screw turn	0,15
Antiderapant support area	80 x 100

Datas SK 20 AV	
Maximum torque (Nm)	20
Torque at 1000 daN (Nm)	10
Maximum load for fine adjustment (daN)	2.000
Base with buna-N 80° shore thickness	thickness 3 mm
Support area with buna-N 80° shore thickness	thickness 1,5 mm

\* May be supplied with either 50° or 90° shore or without buna-N



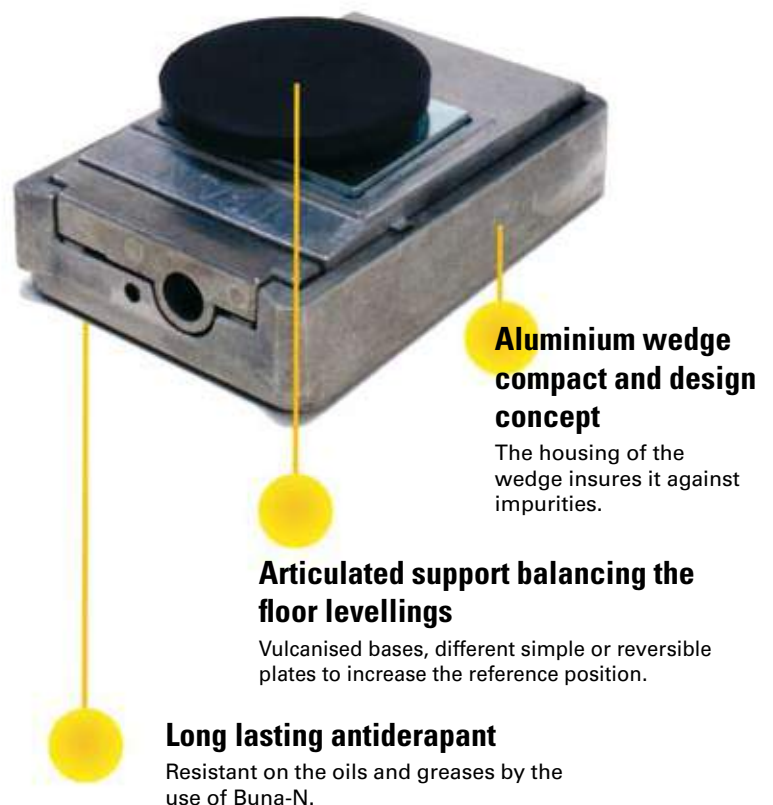
### Levelling wedge : GP37+TH15 without locating

Compact levelling wedge with antiderapant and articulated support up to 7T

Dimensions GP37+TH15	mm
Length	145
Width	95
Height	52
Fine adjustment strooke	7
Strooke by screw turn	0,275
Antiderapant support area	ø 70

Datas GP37+TH15	
Maximum torque (Nm)	35
Torque at 1000 daN (Nm)	5
Maximum load for fine adjustment (daN)	7.000
Base with buna-N 80° shore thickness	thickness 2 mm*
Support area with buna-N 80° shore thickness	thickness 2 mm

\* May be supplied with either 50° or 90° shore or without buna-N



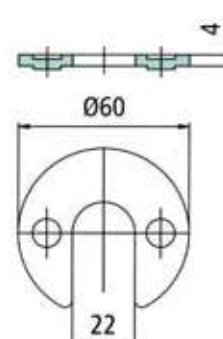
# Workshop machine

## Others anchoring solutions

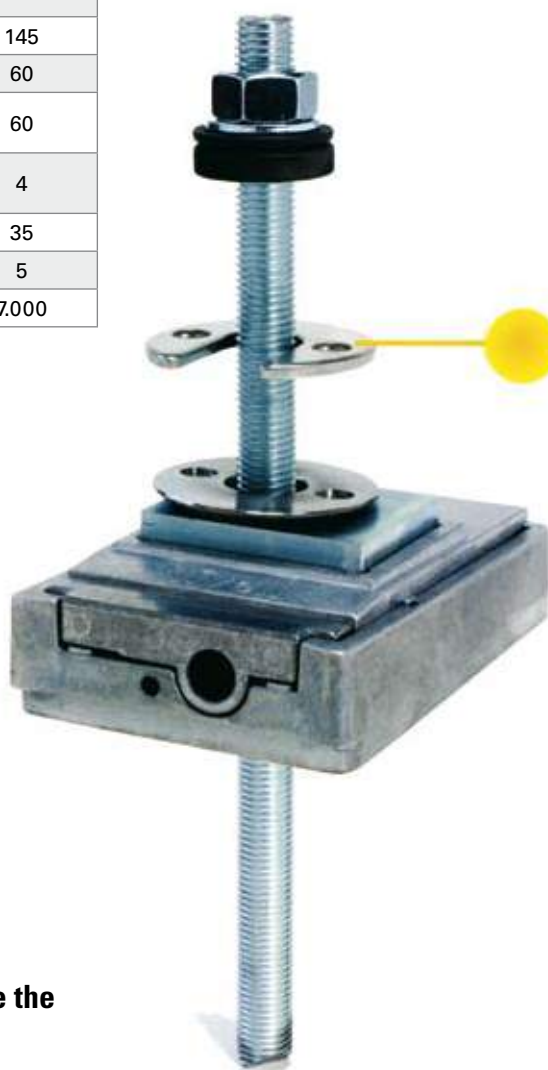
### Precision wedges GN35+TS15

Floor anchoring of the machine or additional equipment such as tools cabinets robots, radial drilling machines etc...

Dimensions GN35+TS15/D-4	mm
Length x Width	145 x 95
Thickness	50
Stem length	M16 x 320
Depth of boring for use with chemical pees	18 x 125
Useful length of the stem	145
Diameter of the spherical support	60
Diameter of the washer	60
Thickness of the washer	4
Maximum torque (Nm)	35
Torque at 1000 daN (Nm)	5
Maximum load for setting (daN)	7.000



Washers D-4/60

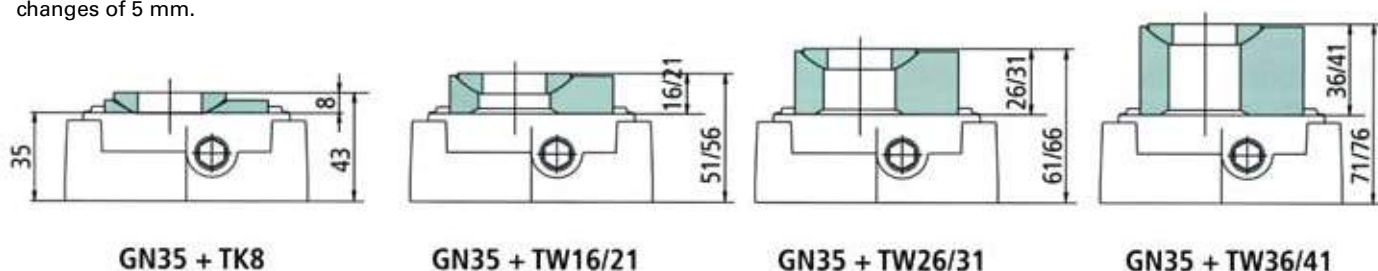


### Washers D-4/60

To increase the adjustment the washers D-4/60 allow stacking the adjustment with an accurate position.

### Different reversible plates to increase the range of reference position

By reversing the reversible plate in the reference height changes of 5 mm.





# Workshop machine

## Precision levelling antiderapant wedges

### Antiderapant wedge GP37+TS15 anchoring on the machine

Precision antiderapant wedge for anchoring on the machine.

#### Spherical support

To balance the floor level differences

#### Increasing of the adjustment strooke

By the use of the D-4/60 washers.

#### Floor long lasting adherence

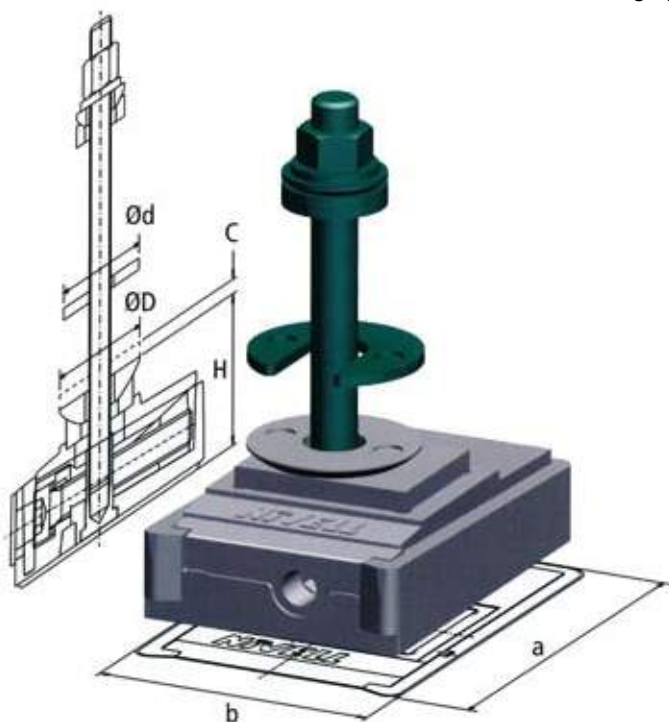
By the use of Buna-N and others hardness materials (shore)

#### Aluminium wedge compact and design cone

The housing of the wedge insures it against impurities.

#### Easy setting to lift heavy loads up to 7T

Accurate setting by a low torque.



Datas GP37+TS15	mm	mm
Length	a	145
Width	b	95
Height	H	52
Strooke by fine adjustment	C	7
Strooke by screw turn		0,275
Length of the mig usable stem	L	145
Diameter of the support	D	60
Diameter of the washer	d	60
Thickness of the washer	h	4
Maximum torque (Nm)		35
Torque at 1000 daN (Nm)		5
Maximum load for adjustment (daN)		7.000
Buna-N 80° shore		2

Others hardness 50° and 90° shores



# Workshop machine

## Antivibration plates

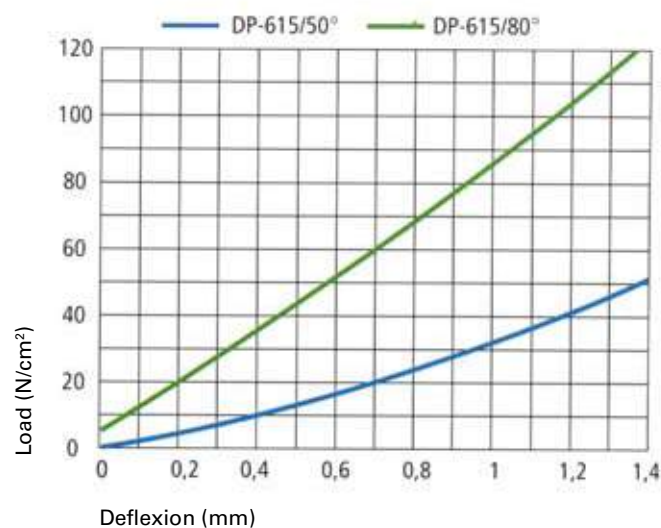
### Lates with reliefs DP

- Isolating plate long lasting elasticity
- Lower frequency by the reliefs
- Antiderapant with a friction coefficient of 2, always higher than 1 in wet conditions.
- Oil and others aggressive fluids resistant
- Square, rectange and rounge excutions



### 2 hardness relief plates (shore)

The reliefs on the plates meet a simple but effective function; they reduce the machine support area whom the deflexion and isolating are higher. The curves show the maximum load for reliefs efficiency in case of overloading the relief are crushonned into the plate which becomes a standard plate and isolating starts again. This higher isolating principle insures a safety by limiting the overloading.



### Datas DP-615

Hardness	°shore	50	80	50	80	50	80	50	80	50	80
Standard length	mm	100	100	200	200	250	250	500	500	500	500
Standard width	mm	100	100	200	200	250	250	250	250	400	400
Thickness	mm	15	15	15	15	15	15	15	15	15	15
Area	cm²	100	100	400	400	625	625	1.250	1.250	2.000	2.000
Relief efficiency up to max.	daN	400	1.250	1.600	5.000	2.500	7.800	5.000	15.600	8.000	25.000
Maximum load	daN	1.000	4.000	4.000	20.000	6.200	25.000	12.500	50.000	20.000	80.000

Others dimensions or round plate on request.

# Workshop machine

## Antivibration plates

### Antiderapant plates / Isolating washers

#### Antiderapant plate

High antiabrasion and tensile resistance generating an antiglide characteristic. Thickness 2 and 4 mm for a load of 30 daN/cm<sup>2</sup>.

Antiderapant plate dimensions on request.



#### Rubber items

We produce a broad range of rubber items in different qualities. E.g : white rubber for food industry or white rooms.



#### Special applications with rubber and metal

Every day and mass productions to meet customer's requirements please inquire.



#### Isolating washers

Are used with isolated wedges anchored in the floor avoiding a maximum of vibrations in the stem. Standard dimensions M16, M20 and M24.



# Workshop machine

## Antivibration plates

### Sandwich plate - «Same level» reliability

- High machine stability
- High isolation against horizontal oscillations
- Passive isolation
- Isolation against interfering vibrations
- For heavy loads

### Applications

Passive isolation of machine to active isolation of hydraulic presses and textile machines.



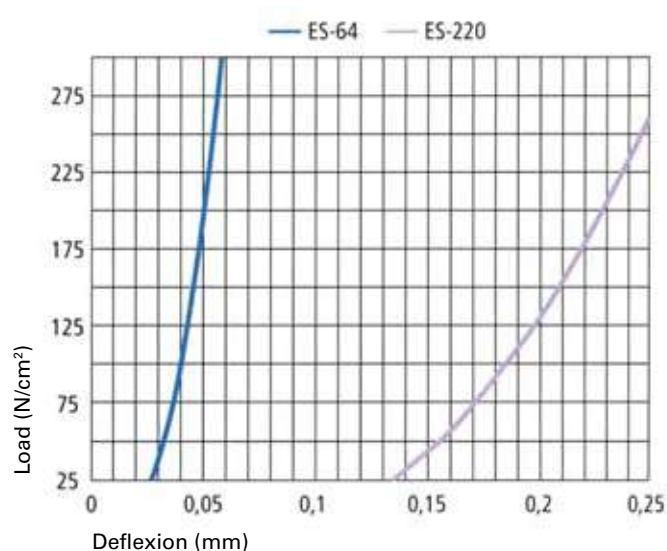
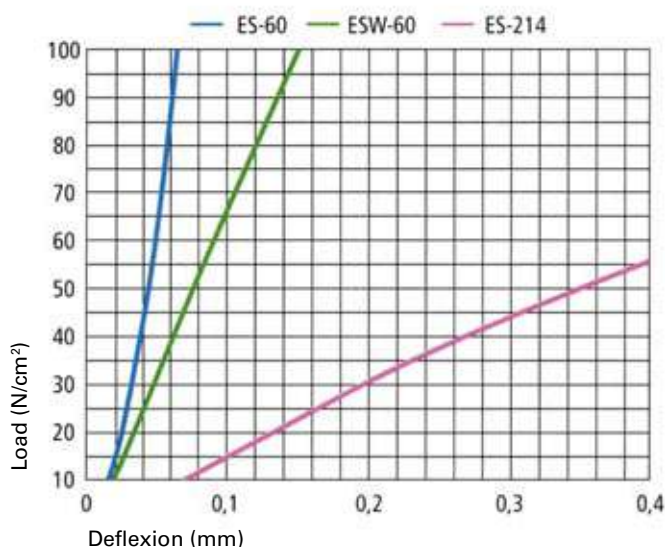
The sandwich concept of reverberating materials (metals) and others absorbing the sounds (rubber) allows a progressive absorbing of the interfering vibrations.

Although a low deflexion we reach a high absorbing level with a high machine stability advantage.

Charges from 30 up to 80 daN/cm<sup>2</sup>

### Datas ES

		ES-60	ESW-60	ES-64	ESW-64	ES-214	ES-220
Length	mm	144	144	217	217	150	217
Width	mm	97	97	137	137	100	137
Hardness	°shore	80	50	80	50	50	50
Thickness	mm	6	6	6	6	21	21
Maximum load	daN	5.000	3.000	10.000	6.000	3.000	6.000

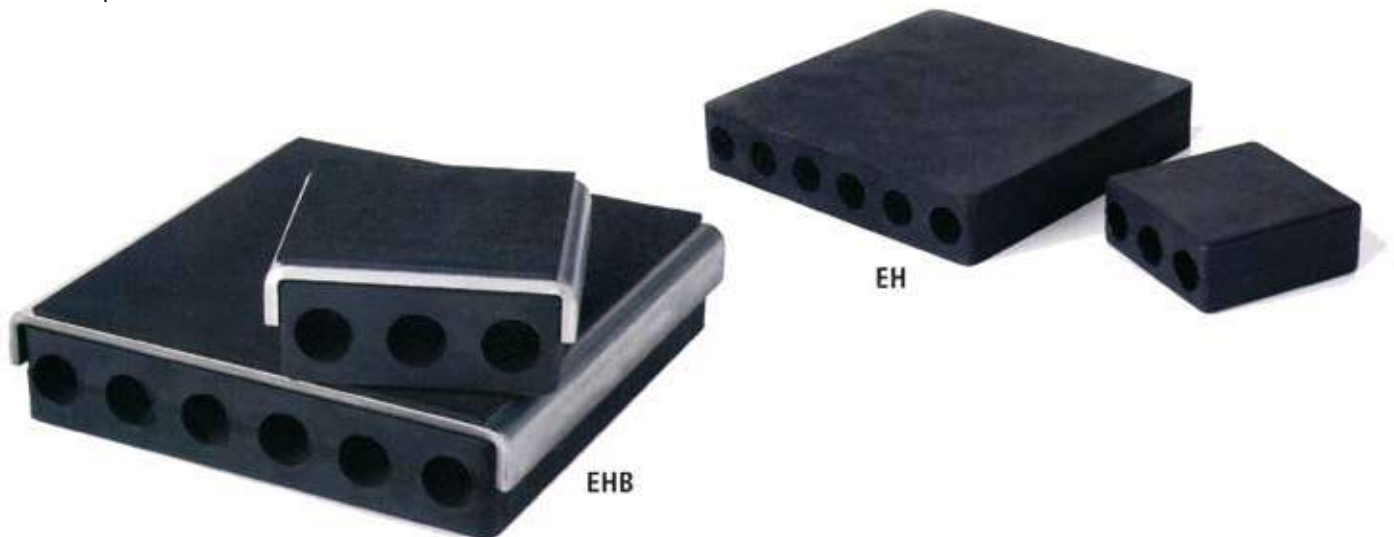


# Workshop machine

## Antivibration plates

### Hollow plate - For vibrations from 5 Hz

High deflexion  
High elasticity  
High loads distribution  
Antiderapant



### Datas EH

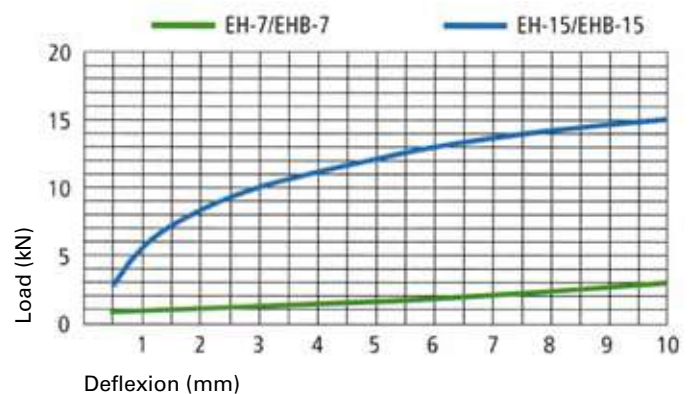
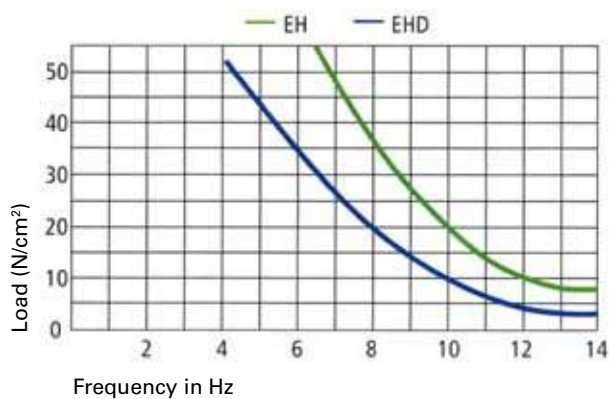
	EH	EH-7	EH-15	EHB-7	EHB-15	EHD-7	EHD-15
Length	mm	75	150	72	150	75	150
Width	mm	75	150	81	159	75	150
Hardness	°shore	50	50	50	50	50	50
Thickness	mm	30	30	36	36	65	65
Maximum load	daN	250	1.000	250	1.000	250	1.000

Isolating plate against - 5Hz minimum vibrations applications in building's protection to isolate from air conditioner compressors, pumps, heating a produced in natural rubber.

**EH** = Natural rubber

**EHD** = Twinned at 90° to increase the stability an metallic insert is added

**EHB** = With a steel sheet and antiderapant sole. To allow specific high loads.





# Outdoor equipment

## Ride on lawnmower

### Features :

- Simplicity itself to operate, thanks to well-placed, ergonomically designed
- Cutting deck can be cleaned quickly and easily with the aid of a handy plug.
- Easy and convenient : the electrically switched cutting deck with electromagnetic blade coupling and central 6-stage height adjustment.
- The bevelled rack and pinion steering ensures good straight-line running and steering.

	<b>PTM1002</b>
Engine make	Briggs & Stratton Intek V-twin (20 cv)
Electrical kickoff	yes
Speed before / back	8,8 - 4,5 Km/h
Clutch	hydrostatic
Cutting Width	104 cm
Blades	2
Mulching	optional
Blades coupling	electromagnetic
Cutting Capacity	30-90 mm - 7 positions
Rear Bag Capacity	300 l
ø Wheel before / back	15 x 5.00-6
	18 x 8.50-8
Dimensions (mm) Width	1090
Length	1860
Height	1120
Net Weight	229 kg
Surface	6000 m <sup>2</sup>



### Features :

- Simplicity itself to operate, thanks to well-placed, ergonomically designed
- Cutting deck can be cleaned quickly and easily with the aid of a handy plug.
- Easy and convenient : the electrically switched cutting deck with electromagnetic blade coupling and central 6-stage height adjustment.
- The bevelled rack and pinion steering ensures good straight-line running and steering.

	<b>PTM0902</b>
Engine make	Honda GCV520 V-twin (14 cv)
Electrical kickoff	yes
Speed before / back	8,8 - 3,8 Km/h
Clutch	hydrostatic
Cutting Width	98 cm
Blades	2
Mulching	standard
Blades coupling	mechanics
Cutting Capacity	30-80 mm - 7 positions
ø Wheel before / back	15 x 5,0-6
	18 x 8,5-8-10
Dimensions (mm) Width	1090
Length	1860
Height	1120
Net Weight	172 kg
Surface	4000 m <sup>2</sup>





# Outdoor equipment

## Ride on lawnmower

### Features :

- Simplicity itself to operate, thanks to well-placed, ergonomically designed
- Cutting deck can be cleaned quickly and easily with the aid of a handy plug.
- Easy and convenient : the electrically switched cutting deck with electromagnetic blade coupling and central 6-stage height adjustment.
- The bevelled rack and pinion steering ensures good straight-line running and steering.



	PTM0901
Engine make	Briggs & Stratton OHV I/C AVS (13,5 cv)
Electrical kickoff	yes
Speed before / back	8,8 - 3,8 Km/h
Clutch	hydrostatic
Cutting Width	92 cm
Blades	2
Mulching	optional
Blades coupling	electromagnetic
Cutting Capacity	30-80 mm - 7 positions
Rear Bag Capacity	260 l
ø Wheel before / back	15 x 5,0-6
	18 x 8,5-8
Dimensions (mm) Width	990
Length	1940
Height	1090
Net Weight	191 kg
Surface	4000 m <sup>2</sup>

# Outdoor power

## Outdoor power

### Petrol shredder-chipper

	GSP5500	GSE2200
Horse power	4,1 kW/5,5 cv	2200 W
No load speed	2800 t.p.m.	2800 t.p.m.
Max. cutting capacity	50 mm	50 mm
Net weight	54 kg	55 kg



### Water pump

	EW220R	EW220ST
Horse power	EX13 (4,5 pk)	EX13 (4,5 pk)
Cubic capacity	126 cc	126 cc
Tank capacity	2,7 L	2,7 L
Liter per min.	600 L/min	580 L/min
Ø hose	50 mm	50 mm
Dimensions (mm)	468 x 357 x 399	468 x 357 x 399
Net weight	24 kg	25 kg



### Generator inverter

	G1700I	G3200IS	G4300IS
Max output current	1650 Watt	3200 Watt	4300 Watt
Rated output current	1400 Watt	2800 Watt	3800 Watt
Volts AC	230 Volt, 50 Hz	230 Volt, 50 Hz	230 Volt, 50 Hz
Volts DC	12 Volt, 8,3 A	12 Volt, 8,3 A	12 Volt, 8,3 A
Noise level rated output	61 dB	64dB	66 dB
Cubic capacity	85,8 cc	211 cc	265 cc
Full tank capacity	4 litres	14 litres	18 litres
Continuous operation	4 hours	8,4 hours	6,6 hours
Dimensions (L x W x H)	490x295x445 mm	537x482x583 mm	580x527x618 mm
Net weight	19 kg	54 kg	66 kg
Inverter	yes	yes	yes



	G2800L	G4300L	G7300R
Maximum output current	2400 Watt	3700 Watt	6300 Watt
Rated output current	2100 Watt	3300 Watt	5500 Watt
Volts AC	230 Volt, 50 Hz	230 Volt, 50 Hz	230 Volt, 50 Hz
Volts DC	12 Volt, 8,3 A	12 Volt, 8,3 A	12 Volt, 8,3 A
Noise level rated output	69 dB	71 dB	-
Cubic capacity	169 cc	265 cc	404 cc
Full tank capacity	14 litres	17 litres	27,5 litres
Continuous operation	10,5 hours	8,8 hours	9 hours
Dimensions (L x W x H)	537x432x475 mm	580x477x508 mm	690x530x530 mm
Net weight	44 kg	56 kg	90 kg



# Outdoor power

## Outdoor power

### Gas engine leaf back pack blower

	RBL500	RBLV250	BHX2510
Engine	2 stroke	2 stroke	4 strokes
Cubic capacity	49 cm <sup>3</sup>	24,5 cm <sup>3</sup>	24,5 cm <sup>3</sup>
Horse power	1,9 kW (2,6cv)	0,95 kW (1,3cv)	0,81 kW (1,1cv)
Air velocity	83 m/sec.	50 m/sec.	64,6 m/sec.
Tank capacity	1,8 L	0,53 L	0,52 L
Net weight	8,7 kg	3,8 kg	4,4 kg



### Petrol post hole borer

	BBA520	Auger for BBA520	
Cubic capacity	51,7 cc	8 cm / 800 mm	P-49155
Horse power	1,98 kW/2,66cv	10 cm / 800 mm	P-49161
Depth	800 mm	12 cm / 800 mm	P-49177
(without extra)		15 cm / 800 mm	P-49183
Net weight	10,5 kg	18 cm / 800 mm	P-49199
Max. auger	220 mm	20 cm / 800 mm	P-49208



BBA520

### Log splitter

	MLS6000
Log force	6t
Log splitter min.	70 mm
Log splitter max.	450 mm
Log capacity	550 / 1070 mm
Max. pressure	190 bar
Voltage	230 V
Horse power	3,0 kw
Dimensions (L x W x H)	1600 x 600 x 1000 mm
Height with retracted jack	1100 mm
Capacity of the hydraulic tank	7 litres
Weight	125 kg



MLS6000

### Electric shredder-chipper

	DSH2400
Power rating	2500 W
Max. cutting capacity	45 mm
Net weight	28 kg



DSH2400

# Outdoor power

## Hedge trimmer

### Petrol hedge trimmer

	HTR4900	HTR5600
Engine	2 stroke	2 stroke
Cubic capacity	21 cc	24,5 cc
Horse power	0,62 kW/0,83 cv	0,88 kW/1,18 cv
Blade length	490 mm	560 mm
Tank capacity	0,4 L	0,6 L
Dimensions (L x W x H)	1030 x 255 x 220 mm	840 x 246 x 225 mm
Net weight	4,7 kg	5,1 kg



HTR4900



HTR5600

	HTB7600
Engine	2-strokes
Cubic capacity	28,3 cc
Horse power	
Blade length	760 mm
Tank capacity	0,5 L
Dimensions (L x W x H)	
Net weight	6,0 kg



HTB7600

	HTR7610
Engine	2-strokes
Cubic capacity	24,5 cc
Horse power	0,88 kW/1,18 cv
Blade length	750 mm
Tank capacity	0,6 L
Dimensions (L x W x H)	1041 x 280 x 258 mm
Net weight	5,4 kg



HTR7610

	PTR2500
Engine	2 takt
Cubic capacity	24,5 cc
Horse power	0,73 kW/0,98 cv
Blade length	535 mm
Tank capacity	0,65 L
Dimensions (L x W x H)	2400 x 350 x 220 mm
Net weight	6,1 kg



PTR2500

### Electric hedge trimmer

	UH6540	UH5540	UH4540
Voltage	230 V	230 V	230 V
Input wattage	600 W	600 W	600 W
Strokes per minute	1500/min	1500/min	1500/min
Number of blows	3000/min	3000/min	3000/min
Blade length	65 cm	55 cm	45 cm
Max. cutting depth	20 mm	20 mm	20 mm
Net weight	4,1 kg	4,0 kg	3,8 kg



UH6540

	UH6350	UH5550	UH4850	UH4050
Horse power	230 V	230 V	230 V	230 V
Input wattage	500 W	500 W	500 W	500 W
Strokes per minute	1500/min	1500/min	1500/min	1500/min
Number of blows	3000/min	3000/min	3000/min	3000/min
Blade length	63 cm	55 cm	48 cm	40 cm
Max. cutting depth	18 mm	18 mm	18 mm	18 mm
Net weight	3,6 kg	3,5 kg	3,4 kg	3,3 kg



UH6350

# Outdoor power

## Brushcutters - Hedging trimmer

### Brushcutters

	DBC290	DBC250
Engine displacement	29 cm <sup>3</sup>	25 cm <sup>3</sup>
Power rating	1,0 kW (1,36 cv)	0,75 kW (1,0 cv)
Anti-vibrations system	+	+
Multi functions handle	+	+
Full tank capacity	0,5 L	0,5 L
Net weight	4,9 kg	4,9 kg
Blades	Blades 4 teeth	Blades 4 teeth



	BCX2500	BCX3400
Engine displacement	24,5 cm <sup>3</sup>	33,5 cm <sup>3</sup>
Power rating	0,66 kW (0,9 cv)	1,1 kW (1,5 cv)
Handle	U-type	U-type
Starting pump	+	+
Electronic ignition	+	+
Anti-vibrations system	+	+
Full tank capacity	0,5 L	0,65 L
Dimensions	1760 x 600 x 405 mm	1760 x 600 x 405 mm
Net weight	6,2 kg	7,4 kg



### Brush cutter - Hedging trimmer

	ETR2500
Engine displacement	24,5 cm <sup>3</sup>
Power rating	0,73 kW (0,98 cv)
Handle	C-type
Electronic ignition	+
Full tank capacity	0,5 L
Dimensions	1760 x 395 x 220 mm
Net weight	5,1 kg



# Outdoor power

## Brushcutters - Brush cutter - Hedging trimmer

### Scarifiars - Trimmers

	UV380	EUV400
Horse power	1800 Watt	-
Power	-	2,6 kW/3,5 cv
Width	39 cm	39 cm
Frame	Steel	Steel
Cutting height	0-25 mm	0-25 mm
Ø wheels	20/20 cm	20/20 cm
Container capacity	40 L	40 L
Net weight	25 kg	30 kg



UM4030

BBC5700

BBC4500

DBC3310

DBC4010

DBC4510

BCM4300

BCM3300

BCM2600

### Electric trimmer

	UM4030
Power	1000 Watt
Voltage	230V/240V - 50/60 Hz
2 line cutting head	2-fils Tap & Go
Cutting capacity	400 mm
Net weight	4,9 kg

### Professional brush cutter

	DBC4510	DBC4010	DBC3310
Engine displacement	45 cm <sup>3</sup>	39 cm <sup>3</sup>	33 cm <sup>3</sup>
Power rating	2,3 kW (3,1 cv)	1,8 kW (2,5 cv)	1,6 kW (2,2 cv)
Anti-vibrations system	+	+	+
Multi functions handle	+	+	+
Head of dirigible entrainment	+	+	+
Implement of blockage	+	+	+
Full tank capacity	1,0 L	1,0 L	1,0 L
Weight	7,9 kg	7,9 kg	7,9 kg
Blades	3 teeth saw blade	3 teeth saw blade	3 teeth saw blade

### Brush cutter, gasoline

	BBC4500	BBC5700
Engine displacement	44,9 cm <sup>3</sup>	56,5 cm <sup>3</sup>
Power rating	1,62 kW (2,2 cv)	2,2 kW (3,0 cv)
Cutter axe	right	right
Full tank capacity	0,9 L	0,9 L
Weight	7,5 kg	7,5 kg
Accessories	Brush cutter, 4 teeth saw blade	Brush cutter, 4 teeth saw blade

	BCM2600	BCM3300	BCM4300
Engine displacement	25,5 cm <sup>3</sup>	32,6 cm <sup>3</sup>	42,7 cm <sup>3</sup>
Power rating	0,8 kW (1,1 cv)	0,95 kW (1,3 cv)	1,27 kW (1,7 cv)
Starting pump	+	+	+
Full tank capacity	0,6 L	0,8 L	0,9 L
Weight	6,5 kg	7,3 kg	8,5 kg
Saw blade	4 teeth saw blade	4 teeth saw blade	4 teeth saw blade

# Outdoor power

## Brush cutters accessories



**Cutter head nylon double line**



**Cutter head, nylon double line**  
Fully automatic.



**Cutter head nylon double line**



**Cutter head nylon four lines**



**3 teeth cutter blades**  
For thick grass and weeds.



**4 teeth cutter blade**  
For large areas of tough weeds and heavy grass.



**8 teeth blades**  
For thick dry weeds and reads.



**22 teeth cutter blades**  
For dry grass and weeds



**24 teeth cutter blade**  
For dry grass gnarled bushes and heavy weeds and reads.



**30 teeth cutter blades**  
For dry grass gnarled bushes and heavy weeds and reads.



**80 teeth cutter blades**  
For heavy weeds, brush and slappings.



**Cutter blades**  
For gnarled bushes, heavy weeds and reads.

Model	Bo- ring	3 teeth blades	4 teeth blades			8 teeth blades		22 teeth blades	24 teeth blades			80 teeth blades	
		300 mm	200 mm	230 mm	255 mm	250 mm	255 mm	200 mm	225 mm	230 mm	255 mm	230 mm	255 mm
BBC4500	25,4	385.224.130		B-01878	B-01884		B-01909			B-01915	B-01921	B-01937	B-01943
BBC5700	25,4	385.224.130		B-01878	B-01884		B-01909			B-01915	B-01921	B-01937	B-01943
BCM2600	25,4			B-01878						B-01915		B-01937	
BCM3300	25,4			B-01878						B-01915		B-01937	
BCM4300	25,4			B-01878						B-01915		B-01937	
BCX2500	25,4			B-01878	B-01884		B-01909			B-01915	B-01921	B-01937	B-01943
BCX3400	25,4			B-01878	B-01884		B-01909			B-01915	B-01921	B-01937	B-01943
DBC250	20		372.224.051					385.224.170	385.224.160				
DBC290	20		372.224.051					385.224.170	385.224.160				
DBC3310	20	385.224.130	372.224.051			385.224.180		385.224.170	385.224.160				
DBC4010	20	385.224.131	372.224.051			385.224.180		385.224.170	385.224.160				
DBC4510	20	385.224.132	372.224.051			385.224.180		385.224.170	385.224.160				

### Nylon cutter heads

Model	Axe	Double line heads	4 lines heads	Double line heads automatic	Double line heads Tap & Go	Double line heads fulls automatic
BBC4500	M10	P-47307		384.224.503	A-89143	
BBC5700	M10	P-47307		384.224.503	A-89143	
BCM2600	M8	P-14451		384.224.503	A-89121	B-01959
BCM3300	M8	P-14451		384.224.503	A-89121	B-01959
BCM4300	M8	P-14451		384.224.503	A-89121	B-01959
BCX2500	M8	365.224.010		384.224.503	A-89121	B-01959
BCX3400	M8	365.224.010		384.224.503	A-89121	B-01959
DBC250	M8	P-14451		384.224.503	369.224.101	B-01959
DBC290	M8	P-14451		384.224.503	369.224.101	B-01959
DBC3310	M10	385.224.501	385.224.541	384.224.503	A-89143	B-01965
DBC4010	M10	385.224.501	385.224.541	384.224.503	A-89143	B-01965
DBC4510	M10	385.224.501	385.224.541	384.224.503	A-89143	B-01965

# Outdoor power

## Mowers

### Mower gasoline

	PLM4812	PLM4811
Width	48 cm	48 cm
Engine type	Briggs & Stratton 60 ready-start	Briggs & Stratton 60 ready-start
Frame	Aluminium	Aluminium
Cutting height	30-80 mm in 6 positions	30-80 mm in 6 positions
Mulching	optionnal	optionnal
Ø wheels	17/21 cm	17/21 cm
Power driven	yes (4 speeds 2-3-4-5 km/u)	yes (3,8 km/u)
Container capacity	75 L	75 L
Net weight	39 kg	38 kg
Ergomow® dashboard	yes	yes
Max. lawn surface	2000 m <sup>2</sup>	1800 m <sup>2</sup>



PLM4812

	PLM5101	PLM4601	PLM4600
Width	53 cm	48 cm	48 cm
Engine type	Briggs & Stratton 60	Briggs & Stratton 40	Briggs & Stratton 40
Frame	Steel	Steel	Steel
Cutting height	30-75 mm in 5 positions	30-75 mm in 5 positions	30-75 mm in 5 positions
Mulching	optionnal	optionnal	optionnal
Ø wheels	17/21 cm	17/21 cm	17/21 cm
Power driven	yes (3,8 km/u)	yes (3,8 km/u)	No
Container capacity	60 L	60 L	60 L
Net weight	34 kg	28 kg	24 kg
Max. lawn surface	2200 m <sup>2</sup>	1400 m <sup>2</sup>	1200 m <sup>2</sup>



PLM5101

### Electric mowers

	ELM4601	ELM4600	ELM3700	ELM3300
Width	46 cm	46 cm	37 cm	33 cm
Input wattage	1800 W	1800 W	1300 W	1100 W
Frame	Steel	Steel	ABS	ABS
Cutting height	20-75 mm in 5 positions	30-75 mm in 5 positions	20-55 mm in 3 positions	20-55 mm in 3 positions
Mulching	optionnal	optionnal	No	No
Ø wheels	17/21 cm	17/21 cm	13/16 cm	13/16 cm
Power driven	yes	No	No	No
Container capacity	60 L	60 L	35 L	27 L
Net weight	27 kg	24,5 kg	13 kg	11,5 kg



ELM4601

### Petrol flail mower (scarifaier) (for moss and thatch)

	FLG5000
Motor	Honda GX160 (5,5 cv)
Width	50 cm
Frame	Steel
Cutting height	20-80 mm
Ø wheels	20/29 (back wheels 4.00-4 type tractor)
Power driven	yes (2,5 km/u)
Net weight	95 kg



FLG5000

# Outdoor power

## Mowers

### Ride on lawn mower - Lawn Mowers

- Powerful Briggs & Stratton 4-stroke-Engine • Heavy duty single blade steel deck
- Stable, low torsion steel frame • Weather resistant, easy clean ABS body
- E-start for easy engine starting • Hydrostatic gear box - No gear change
- Easy grass box emptying by hand • Acoustic signal for grass box full
- Mechanic blade clutch (manual blade engage - lever)
- Water connector for easy deck cleaning
- Catching blade as standard - Mulching kit as accessory • Adjustable comfort seat
- Standard equipment includes maintenance free battery & charger
- LED display with one lamp • 4cut : ejection, collecting, mulching, collecting leaves
- Turf wheels - Minimum damage to lawn.

	PRM0700
Horse power	Briggs & Stratton OHV I/C AVS (12,5 pk)
Electrical kickoff	yes
Speed front / back	8,8 - 3,2 km/h
Gear type	hydrostatic
Width	71 cm
Knives	1
Mulching	optionnal
Cutting tool clutch	mechanical
Cutting height	30-80 mm in 7 positions
Container capacity	170 L
Ø wheels	11 x 4.0 - 4
	15 x 6.0 - 6
Dimensions (mm) width	800 mm
Length	1680 mm
Height	1027 mm
Net weight	168 kg
Max. lawn surface	3000 m



### Mowers gasoline

	PLM5111	PLM4814
Width	51 cm	48 cm
Engine type	Honda 65	Honda 55
Frame	Aluminium	Aluminium
Cutting height	30-80 mm in 7 positions	30-80 mm in 6 positions
Mulching	optionnal	optionnal
Ø wheels	17/21 cm	17/21 cm
Power driven	yes (3 speeds 2,7-3,7-4,8 km/u)	yes (3,8 km/u)
Container capacity	75 L	75 L
Overall weight	42 kg	37 kg
Antivibration system	No	yes
Ergomow® handle	yes	yes
Max. lawn surface	2400 m <sup>2</sup>	2000 m <sup>2</sup>



	PLM5112	PLM5110
Width	51 cm	51 cm
Engine type	Briggs & Stratton 60 E-start	Briggs & Stratton 60 ready-start
Frame	Aluminium	Aluminium
Cutting height	30-80 mm in 7 positions	30-80 mm in 7 positions
Mulching	optionnal	optionnal
Ø wheels	17/21 cm	17/21 cm
Power driven	yes (3 speeds 2,7-3,7-4,8 km/u)	yes (3 speeds 2,7-3,7-4,8 km/u)
Container capacity	75 L	75 L
Overall weight	42 kg	41 kg
Ergomow® handle	yes	yes
Max. lawn surface	2400 m <sup>2</sup>	2400 m <sup>2</sup>
Electric start	yes	No





# Outdoor power

## Saw

### Petrol chainsaw

- 2 stroke engine
- Automatic chain brake
- External chain tensionner
- Air master air filter

	DCS7900-60	DCS7300-50	DCS6400-50	DCS6400-45	DCS9010-60
Cubic capacity	79 cm <sup>3</sup>	73 cm <sup>3</sup>	64 cm <sup>3</sup>	64 cm <sup>3</sup>	90 cm <sup>3</sup>
Horse power	4,6kW (6,3 cv)	4,2kW (5,7 cv)	3,5kW (4,8 cv)	3,5kW (4,8 cv)	4,9kW (6,7 cv)
Bar size	60 cm	50 cm	50 cm	45 cm	60 cm
Chain	099	099	099	099	099
Semi chisel chain	3/8"	3/8"	3/8"	3/8"	3/8"
Pitch gauge	0,058"	0,058"	0,058"	0,058"	0,058"
Net weight	6,3 kg	6,3 kg	6,3 kg	6,3 kg	8,2 kg
Petrol tank	750 ml	750 ml	750 ml	750 ml	1000 ml
Oil chain tank	420 ml	420 ml	420 ml	420 ml	400 ml

DCS7900



### Professional tools

- External chain tensionner
- Air master filter
- Lever combined for contact, mi wall and choke
- Automatic chain brake

	DCS5000-45	DCS4600S-45
Cubic capacity	50 cm <sup>3</sup>	46 cm <sup>3</sup>
Horse power	2,8 kW (3,8 cv)	2,6 kW (3,5 cv)
Bar size	45 cm	45 cm
Net weight	5,1 kg	5,1 kg
Oil pump	+	+
Electronic ignition	+	+
Petrol tank	0,47 l	0,47 l
Oil chain tank	0,27 l	0,27 l
Chain	099 / 3,8"	099 / 3,8"

DCS5000-45



### For agriculture, forestry

	DCS 520-45	DCS500-4s5	DCS460-38	DCS431-45 Happy start	DCS430-45
Cubic capacity	52 cm <sup>3</sup>	50 cm <sup>3</sup>	46 cm <sup>3</sup>	43 cm <sup>3</sup>	43 cm <sup>3</sup>
Horse power	2,4kW (3,3 cv)	2,4kW (3,3 cv)	2,2kW (3,0 cv)	2,0kW (2,8 cv)	2,0kW (2,8 cv)
Bar size	45 cm	45 cm	38 cm	45 cm	45 cm
Net weight	4,5 kg	5,5 kg	5,5 kg	4,6 kg	4,5 kg
Electronic ignition	+	+	+	+	+
Petrol tank	0,56 l	0,47 l	0,47 l	0,56 l	0,56 l
Oil chain tank	0,28 l	0,27 l	0,27 l	0,28 l	0,28 l
Chain	093 / 3/8"	093 / 3/8"	093 / 3/8"	093 / 3/8"	093 / 3/8"

DCS 431-45  
with Happy  
start



### Light chain saw

	DCS3410TH	DCS230T
Cubic capacity	34 cm <sup>3</sup>	22 cm <sup>3</sup>
Horse power	1,4 kW (1,9 cv)	0,75 kW (1,0 cv)
Bar size	30 cm	25 cm
Net weight	3,2 kg	2,5 kg
Electronic ignition	+	+
Petrol tank	0,28 l	0,20 l
Oil chain tank	0,22 l	0,19 l
Chain	092 / 3,8"	092 / 3,8"

DCS230T



DCS3410TH





# Outdoor power

## Saw

### Petrol chainsaw

For house and garden

	DCS340-35	DCS341-35 Happy-start	DCS34-35	DCS401-40 Happy-start	DCS400-40
Cubic capacity	33 cm <sup>3</sup>	33 cm <sup>3</sup>	33 cm <sup>3</sup>	39 cm <sup>3</sup>	39 cm <sup>3</sup>
Horse power	1,4kW (1,9 cv)	1,4kW (1,9 cv)	1,3kW (1,8 cv)	1,7kW (2,3 cv)	1,7kW (2,3 cv)
Bar size	35 cm	35 cm	35 cm	40 cm	40 cm
Net weight	3,9 kg	3,9 kg	4,7 kg	4,0 kg	40 kg
Petrol tank	0,41 l	0,41 l	0,37 l	0,4 l	0,4 l
Oil chain tank	0,21 l	0,21 l	0,25 l	0,21 l	0,21 l
Chain	092 / 3,8"	092 / 3,8"	092 / 3,8"	092 / 3,8"	092 / 3,8"

Electronic ignition

Automatic chain brake



### Electric chain saw

	UC3003AX-Q	UC3503AX-Q	UC4003AX-Q	UC4503AX
Motor	2000 W	2000 W	2000 W	2000 W
Bar length	30 cm	35 cm	40 cm	45 cm
Net weight	4,2 kg	4,2 kg	4,2 kg	4,2 kg
Chain oil tank	115 ml	115 ml	115 ml	115 ml
Chain	092 / 3/8"	092 / 3/8"	092 / 3/8"	092 / 3/8"
Quickset	+	+	+	-
Crew	+	+	+	+

SAFETYMATIC chain brake



### Half-professional

	UC3020A	UC3520A	UC4020A
Motor	1800 W	1800 W	1800 W
Bar length	30 cm	35 cm	40 cm
Net weight	3,7 kg	3,7 kg	3,7 kg
Chain speed	13.3 m/s	13.3 m/s	13.3 m/s
Chain	290 / 3/8"	290 / 3/8"	290 / 3/8"
Quickset	+	+	+



# Outdoor power

## Chainsaw accessories

Makita type 290



- Pitch 3/8", gauge 0.043" (1.1 mm)
- This chain corresponds to type Oregon 90SG.

Makita type 092



- Pitch 3/8", gauge 0.050" (1.3 mm)
- This chain corresponds to type Oregon 91VG.

Makita type 086



- Pitch 3/8", gauge 0.058" (1.5 mm)
- This chain corresponds to type Oregon 21BP.

Makita type 093



- Pitch 3/8", gauge 0.058" (1.5 mm)
- This chain corresponds to type Oregon 73DP.

Makita type 099



- Pitch 3/8", gauge 0.058" (1.5 mm)
- This chain corresponds to type Oregon 73 LP.

Makita Rescue



- Pitch 3/8", gauge 0.058" (1.5 mm)
- Carbide teeth for roofing.

Sprocket wheel	Model	Pitch	free/fixed	Bestelling order	Model	Pitch	free / fixed	Bestelling order
	UC3003AX-Q, UC3503AX-Q, UC4003AX-Q, UC-4503AX	3/8"	fixed	225223110	DCS400, DCS401	3/8"	fixed	958501615
	UC3020A, UC3520A, UC4020A	3/8"	free	221526-1	DCS430, DCS431, DCS520	3/8"	free	020224070
	DCS230T	3/8"	fixed	165405-2	DCS460, DCS500, DCS4600S, DCS5000	3/8"	free	026224010
	DCS3410TH	3/8"	fixed	170223100		.325"	free	181224040
	DCS34	3/8"	fixed	036223112	DCS6400, DCS7300, DCS7900, DCS9010	3/8"	free	119224070

Chainsaw	Semi chisel	Pitch	Chain guide bar			Chain loop			
			Length	Type	No. order	Length	Chain links	Type	No. order
DCS230T	0,043"	3/8"	25 cm/10"		168408-5	25 cm/10"	40	092	194099-6
UC3020A UC3520A UC4020A	0,043"	3/8"	30 cm/12"	roltop	958 030 611	30 cm/12"	46	290	958 290 646
			30 cm/12"	quickset	442 030 211				
			35 cm/14"	roltop	958 035 611	35 cm/14"	52	290	958 290 652
			35 cm/14"	quickset	442 035 211				
DCS3410(TH) DCS34 DCS400 DCS340 DCS401 DCS341 UC3003A UC3503A UC4003A UC4503A	0,050"	3/8"	40 cm/16"	roltop	958 040 611	40 cm/16"	56	290	958 290 656
			30 cm/12"	roltop	958 030 661	30 cm/12"	46	092	958 092 646
			30 cm/12"	quickset	442 030 061				
			35 cm/14"	roltop	958 035 661	35 cm/14"	52	092	958 092 652
			35 cm/14"	quickset	442 035 061				
			40 cm/16"	roltop	958 040 661	40 cm/16"	56	092	958 092 656
DCS430 DCS431 DCS460 DCS500 DCS520 DCS4600S DCS5000	0,058"	0,325"	40 cm/16"	quickset	442 040 061				
			45 cm/18"	roltop	442 045 661	45 cm/18"	62	092	528 092 662
		3,8"	38 cm/15"	roltop	958 038 631	38 cm/15"	64	086	958 086 664
			45 cm/18"	roltop	958 045 631	45 cm/18"	72		958 086 672
			38 cm/15"	roltop	958 038 651	38 cm/15"	56	099	958 099 656
			38 cm/15"			38 cm/15"	56	093	523 093 656
			38 cm/15"	rescue	445 038 751	38 cm/15"	56	rescue	957 696 056
			45 cm/18"	roltop	958 045 651	45 cm/18"	64	099	958 099 664
			45 cm/18"	rescue	445 045 751	45 cm/18"	64	093	523 093 664
			45 cm/18"			45 cm/18"	64	rescue	957 696 064
			53 cm/21"	roltop	443 053 651	53 cm/21"	72	099	528 099 672
			60 cm/24"	hardtop	443 060 451				
DCS6400 DCS7300 DCS7900	0,058"	3/8"	45 cm/18"	roltop	445 045 655	45 cm/18"	68	099	528 099 668
			45 cm/18"	hardtop	445 045 455				
			50 cm/20"	roltop	445 050 655	50 cm/20"	72	099	528 099 672
			50 cm/20"	hardtop	445 050 455				
DCS9010	0,058"	3/8"	60 cm/24"	roltop	445 060 655	60 cm/24"	80	099	528 099 680
			60 cm/24"	hardtop	445 059 455				
			70 cm/28"	hardtop	445 070 455	70 cm/28"	94	099	528 099 694
			70 cm/28"						
Chainsaw adapter A-89539	0,043"	3/8"	45 cm/18"	roltop	443 050 652	45 cm/18"	64	099	958 099 664
			60 cm/24"	hardtop	443 060 452	60 cm/24"	72	099	528 099 672
			60 cm/24"	hardtop	445 074 452	60 cm/24"	80	099	528 099 680
			74 cm/29"	hardtop		74 cm/29"	96	099	528 099 696



Cert. ISO 9001

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